



LECTURE PROGRAM **EUROCORR 2009**

as of 04.09.2009

		Monday, 7 September 2009
	08:50	Registration and Coffee
	09:50	Opening Ceremony
	10:20	Kurt Schwabe Prize
	10:35	EFC MEDAL LECTURE The role of titanium in stainless steels V. Číhal, VŠB-TU Ostrava & SVUOM Ltd. Prague/CZ
PL-8444	11:00	PLENARY LECTURE Metal-environment interactions along two opposite directions C. Leygraf, K. Midander, G. Herting, I. Odnevall Wallinder, Royal Institute of Technology, Stockholm/S
	12:00	Lunchtime
		<i>Coatings (WP 14)</i>
	Chairs:	L. Fedrizzi, University of Udine/I & W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D
SS 5-K-7778	14:00	KEYNOTE LECTURE Application of scanning Kelvin probe to measure delamination on thick organic coatings used for offshore marine applications D. Thierry, A. Nazarov, French Corrosion Institute, Brest/F; P. LeCalvé, DCNS, Lorient/F
SS 5-O-7902	14:40	Study of cut-edge corrosion of organic coated AlMgSi metallic coated steel by Scanning Kelvin Probe A. Alvarez-Pampliega, Vrije Universiteit Brussel/B; M. Madani, J. Gonzalez, F. Hörzenberger, OCAS N.V., Zelzate/B; E. Tourwé, H. Terryn, Vrije Universiteit Brussel/B
SS 5-O-7941	15:00	Open circuit potential characterization during ac-dc-ac accelerated testing K. Allahar, V. Upadhyay, G. Bierwagen, North Dakota State University, Fargo, ND/USA
SS 5-O-7973	15:20	Application of polypyrrole/carbon nanotube-based nanocomposites in cathodic protection A. Gergely, E. Kálmán, Hungarian Academy of Sciences, Budapest/H
	15:40	<i>Coffee Break</i>
SS 5-O-7745	16:10	Assessment of the aggressiveness and environmental conditions on ships N. LeBozec, French Corrosion Institute, Brest/F; J.P. Pautasso, Délégation Générale pour l'Armement, Bagneux/F; P. Le Calvé, DCNS, Lorient/F; D. Thierry, French Corrosion Institute, Brest/F
SS 5-O-7853	16:30	Zinc rich primers - effect of zinc loading A.J. Bjørgum, O.Ø. Knudsen, SINTEF Materials and Chemistry, Trondheim/N; A.Y. Faisal, R. Johnsen, Norwegian University of Science and Technology, Trondheim/N
SS 5-O-7747	16:50	Acrylate based anti-corrosion films using novel bisphosphonic methacrylates G. David, K. Chougrani, B. Boutevin, University of Montpellier II/F
SS 5-O-8095	17:10	Advances in waterborne, acrylic metal protection paints and associated testing procedures A. Trapani, T. Ferrari, Rohm and Haas Company, Valbonne/F; J. Lindholm, Rohm and Haas Company, Hanko/FIN; L. Procopio, Rohm and Haas Company, Spring House, PA/USA
SS 5-O-8110	17:30	Protective properties of UV-cured nanocomposite coatings F. Deflorian, M. Fedel, Università di Trento/I; G. Malucelli, A. Di Gianni, R. Bongiovanni, Politecnico di Torino/I
	17:50	Poster Session
	19:00	Opening of Exhibition

		Corrosion Mechanisms & Methods (WP 6 & 8)
	Chairs:	J.M.C. Mol, Delft University of Technology/NL & H.N McMurray, Swansea University/UK
SS 3-O-8238	14:00	Influence of the passive film and residual stresses on the micro-electrochemical behaviour of duplex stainless steels in sodium chloride media O. Delrue, <u>V. Vignal</u> , O. Heintz, Universite de Bourgogne, Dijon/F; J. Peultier, Industeel, Le Creusot/F
SS 3-O-8210	14:20	An electrochemical study of the corrosion behaviour of ADI and the role of anodic inhibitors at the microscale H. Krawiec, AGH University of Science and Technology, Krakow/PL
SS 3-O-8141	14:40	Solder flux residues and electrochemical migration failures of electronic devices <u>R. Ambat</u> , M.S. Jellesen, D. Minzari, U. Rathinavelu, M.A.K. Johnsen, P. Westermann, P. Møller, Technical University of Denmark, Lyngby/DK
SS 3-O-8159	15:00	Characterisation of crevice solution chemistries using capillary electrophoresis <u>M. Nie</u> , A.W. Cranny, J.A. Wharton, N.R. Harris, R.J.K. Wood, University of Southampton/UK; K.R. Stokes, Physical Sciences Department (Dstl), Salisbury/UK
SS 3-O-7914	15:20	Multi-physics approach and statistical analysis to determine surface characteristics controlling the micro-electrochemical behavior and corrosion resistance of metals <u>J. Gravier</u> , V. Vignal, Université de Bourgogne, Dijon/F; S. Bissey Breton, J. Farre, CEA, Is sur Tille/F
	15:40	<i>Coffee Break</i>
SS 3-K-8016	16:10	KEYNOTE LECTURE Nanoscale initiation of localized corrosion <u>V. Maurice</u> , A. Seyeux, L.H. Klein, P. Marcus, Ecole Nationale Supérieure de Chimie, Paris/F
SS 3-O-7901	16:50	Possibilities and limitations of replacing a conventional corrosion test with an electrochemical potentiokinetic reaction method using the example of alloy 625 <u>M. Prohaska</u> , T. Wernig, G. Mori, University of Leoben/A; G. Tischler, R. Grill, voestalpine Grobblech GmbH, Linz/A
SS 3-O-7829	17:10	The influence of WC grain size on the corrosion behavior of WC-Co hardmetals in alkaline solutions <u>F.J.J. Kellner</u> , H. Hildebrand, S. Virtanen, University of Erlangen-Nuremberg/D
SS 3-O-7721	17:30	Localized corrosion on 2219 aluminium alloy exposed to a 3.5% NaCl solution <u>R. Grilli</u> , J.F. Watts, M.A. Baker, J. Castle, University of Surrey, Guildford/UK; B. Dunn, European Space Agency, Noordwijk/NL
	17:50	Poster Session
	19:00	Opening of Exhibition
		Corrosion and Scale Inhibition (WP 1)
	Chairs:	G. Schmitt, IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D & Z. Gace, University of Tirana/AL
SS 1-K-8292	14:00	KEYNOTE LECTURE Challenge of Albanian industry in corrosion protection - collaboration of corrosion laboratory in faculty of natural sciences with industrial bodies to resolve actual problems <u>Z. Gace</u> , University of Tirana/AL; K. Bejtaj, Petroleum Licence Directory, Tirana/AL
SS 1-O-8257	14:40	New tools to evaluate electrochemical noise data <u>G. Schmitt</u> , IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D; B. Motko, South-Westfalia University of Applied Sciences, Iserlohn/D
SS 1-O-8432	15:00	Atomic force microscopy and its application in corrosion inhibition science <u>B. Kinsella</u> , Ohio University, Athens, OH/USA; T. Becker, Curtin University of Technology, Perth, WA/AUS
SS 1-O-7970	15:20	Synergistic effect between sodium sebacate and fatty amines for the corrosion protection of a carbon steel N. Srisuwan, <u>N. Pébère</u> , A. Lamure, University of Toulouse/F
	15:40	<i>Coffee Break</i>
SS 1-O-8197	16:10	Influence of oxidizing ability of the medium on the growth of lanthanide layers on galvanised steel N. Stella, University of Udine/I; <u>M.-G. Olivier</u> , Faculté Polytechnique de Mons/B; C. Motte, Materia Nova, Mons/B; L. Fedrizzi, University of Udine/I

SS 1-O-8060	16:30	Corrosion at the cut edge of galvanized steel: interactions with benzotriazole <u>J.V. Custódio</u> , S.M.L. Agostinho, University of São Paulo/BR; A.M.P. Simões, Technical University of Lisbon/P
SS 1-O-7908	16:50	Evaluation of corrosion inhibition of brass-118 alloy in artificial seawater by benzotriazole using dynamic EIS K. Darowicki, Gdansk University of Technology/PL; H. Gerengi, Düzce University/TR; <u>G. Bereket</u> , Eskisehir Osmangazi University/TR; P. Slepski, Gdansk University of Technology/PL
SS 1-O-8315	17:10	Corrosion inhibition in aluminium alloys by layered double hydroxides: the role of copper <u>M.A. Travassos</u> , C.M. Rangel, INETI, Lisboa/P
SS 1-O-8054	17:30	Effect of nanocrystalline microstructure on corrosion inhibition of ingot iron <u>E. Oguzie</u> , Federal University of Technology, Owerri/WAN; S. Wang, Y. Li, F. Wang, Chinese Academy of Sciences, Shenyang/PRC
	17:50	Poster Session
	19:00	Opening of Exhibition
		<i>Environment Sensitive Fracture (WP 5)</i>
	Chair:	K. Wolski, Ecole des Mines de Saint Etienne/F
SS 7-O-7719	14:00	Modeling the dynamics of corrosion fatigue G.R. Engelhardt, OLI Systems, Inc., Morris Plains, NJ/USA; <u>D.D. Macdonald</u> , Pennsylvania State University, University Park, PA/USA
SS 7-O-8317	14:20	Novel microstructural-mathematical modeling approach for intergranular stress corrosion crack propagation in polycrystalline materials <u>M. Arafin</u> , J. Szpunar, McGill University, Montreal/CDN
SS 7-O-7759	14:40	On the stress corrosion cracking and hydrogen embrittlement of sensitized austenitic stainless steels in boiling saturated magnesium chloride solutions: effect of applied stress <u>O. Alyousif</u> , Kuwait University, Safat/KWT; R. Nishimura, Osaka Prefecture University/J
SS 7-O-8162	15:00	Visualizing initiation dynamics of stress corrosion cracking in stainless steels <u>Y. Watanabe</u> , R. Ohtake, H. Abe, Tohoku University, Sendai/J
SS 7-O-8286	15:20	High resolution investigations on chloride induced SCC of stainless steels <u>G. Mori</u> , University of Leoben/A; S. Holzleitner, MCL Forschungs GmbH, Leoben/A; R. Fluch, Bohler Edelstahl GmbH, Kapfenberg/A; P. Schmuki, University of Erlangen-Nuremberg, Erlangen/D
	15:40	<i>Coffee Break</i>
SS 7-O-7839	16:10	Finite element prediction of crack growth rates in a nickel-based superalloy under fatigue-oxidation conditions <u>L. Zhao</u> , J. Tong, M.C. Hardy, University of Portsmouth/UK
SS 7-O-7897	16:30	Effect of enhanced lattice defect formation on hydrogen degradation of Alloy 625 and Type 316L <u>K. Takai</u> , H. Shoda, Sophia University, Tokyo/J
SS 7-O-7951	16:50	Corrosion fatigue of austenitic stainless steels <u>R. Sonnleitner</u> , G. Mori, M. Panzenböck, University of Leoben/A; R. Fluch, Böhler Edelstahl GmbH & Co. KG, Kapfenberg/A
SS 7-O-7900	17:10	Crack growth rate and fracture mechanic investigations of austenitic stainless steels <u>C. Vichytil</u> , R. Sonnleitner, G. Mori, M. Panzenböck, University of Leoben/A; R. Fluch, Böhler Edelstahl GmbH & Co. KG, Kapfenberg/A
SS 7-O-8161	17:30	Stress corrosion behaviour of AZ91 above ambient temperatures <u>R. Breining</u> , K. Eppel, T. Troßmann, C. Berger, Technische Universität Darmstadt/D
	17:50	Poster Session
	19:00	Opening of Exhibition

		Corrosion of Steel in Concrete (WP 11)
	Chairs:	B. Elsener, ETH Zurich/CH & G. Sergi, Vector Corrosion Technologies Ltd., Walsall/UK
SS 15-K-8447	14:00	KEYNOTE LECTURE Cathodic protection to Swanson Dock West in Melbourne, Australia I. Godson, Ian Godson & Associates Pty Ltd., Hawthorn East/AUS
SS 15-O-7976	14:40	Investigations of corrosion on small cathodes in reinforced concrete - observations and suggestions <u>M. Beck</u> , J. Goebbels, B. Isecke, A. Burkert, J. Mietz, Federal Institute for Materials Research and Testing (BAM), Berlin/D
SS 15-O-8196	15:00	Modelling of reinforcement corrosion - macrocells and time dependence <u>J. Harnisch</u> , J. Warkus, M. Raupach, RWTH Aachen University/D
SS 15-O-7866	15:20	Hydrogen embrittlement of prestressing steel <u>M. Perrin</u> , L. Gaillet, C. Tessier, Laboratoire Central des Ponts et Chaussées, Bouguenais/F; H. Idrissi, Laboratoire MATEIS INSA Lyon, Villeurbanne/F
	15:40	<i>Coffee Break</i>
SS 15-O-8216	16:10	Implementing corrosion protection of the Bjørvika tunnel for a lifetime of 100 years T. Haugen, <u>H.-E. Berge</u> , B. Espelid, Det Norske Veritas, Bergen/N; I. Markey, Norwegian Public Road Authorities, Oslo/N
SS 15-O-8296	16:30	LRP measurement in reinforced concrete: numerical study of current distribution <u>A. Clement</u> , S. Laurens, G. Arliguie, Université de Toulouse/F
SS 15-O-8312	16:50	Electrochemical studies on the breakdown of passive film formed on black steel rebar in concrete <u>P. Ghods</u> , O.B. Isgor, G. McRae, Carleton University, Ottawa/CDN; G.P. Gu, CANMET Materials Technology Laboratory, Ottawa/CDN
SS 15-O-8318	17:10	Rehabilitation of reinforced concrete slabs using realkalisation - electrochemical monitoring Y.Y. Tong, <u>V. Bouteiller</u> , LCPC, Paris/F; E. Marie-Victoire, LRMH, Champs sur Marne/F; S. Joiret, LISE/UPMC, Paris/F
SS 15-O-8389	17:30	Monitoring chloride-induced corrosion in Portland Cement and Blast Furnace Slag Cement reinforced concrete <u>D. Koleva</u> , K. van Breugel, J.M.C. Mol, J.H.W. de Wit, Delft University of Technology/NL
	17:50	Poster Session
	19:00	Opening of Exhibition
		Corrosion in Oil & Gas Production (WP 13)
	Chairs:	T. Chevrot, Total E&P, Paris-La Défense/F & R. Badrak, Weatherford Company, Houston, TX/USA
SS 12-O-8122	14:00	Recent experience on sour service resistant steels behavior <u>N. Loukachenko</u> , Ph. Bourges, Industeel Creusot ArcelorMittal Group, Le Creusot/F; C. Chauvy, L. Coudreuse, Industeel Loire ArcelorMittal Group, Rive de Gier/F; P. Toussaint, Industeel Belgium ArcelorMittal Group, Charleroi/B; K. Orie, ArcelorMittal USA ArcelorMittal Group, Coatesville, PA/USA
SS 12-O-7997	14:20	Effect of environmental conditions and alloying elements on hydrogen uptake and hydrogen trapping capability of high strength OCTG steels exposed in H₂S environments <u>M. Hörstemeier</u> , V. Makhynya, C. Bosch, Salzgitter Mannesmann Forschung, Duisburg/D; L. Delattre, Vallourec Research Center, Aulnoye Aymeries/F
SS 12-O-8320	14:40	Effects of strain and trapping on hydrogen-induced cracking in high strength low alloy steel <u>C. Bosch</u> , D. Delafosse, Ecole des Mines de Saint-Etienne/F; X. Longaygue, IFP, Rueil-Malmaison/F
SS 12-O-7898	15:00	The effect of surface reactions and trapping on SSC resistance <u>M.J. Cancio</u> , Siderca SAIC (Tenaris Group), Campana - Prov. Buenos Aires/RA; P. Bruzzoni, Comisión Nacional de Energía Atómica, Buenos Aires/RA; T.E. Perez, Siderca SAIC (Tenaris Group), Campana - Prov. Buenos Aires/RA; J.R. Collet-Lacoste, Comisión Nacional de Energía Atómica, Buenos Aires/RA
SS 12-O-8009	15:20	HIC testing of heavy-wall LSAW pipe for mild sour service applications <u>T. Haase</u> , C. Bosch, Salzgitter Mannesmann Forschung, Duisburg/D; A. Liessem, J. Schroeder, EUROPIPE GmbH, Muelheim a.d.Ruhr/D
	15:40	<i>Coffee Break</i>

SS 12-O-7800	16:10	Hydrogen induced cracking (HIC) testing of low alloy steel in sour environment - impact of time of exposure on the extent of damage <u>J. Kittel</u> , IFP-Lyon, Solaize/F; V. Smanio, Total, Pau/F; L. Garnier, IFP-Lyon, Solaize/F
SS 12-O-8043	16:30	For a better control of pH drift when testing SSC in Fit-For-Purpose conditions <u>H. Marchebois</u> , C. Augustin, Vallourec Research Centre, Aulnoye-Aymeries/F; J. Martin, BP, Sunbury/UK; H. El Alami, Vallourec Research Centre, Aulnoye-Aymries/F; F. Legay, Vallourec & Mannesmann, Aulnoye-Aymeries/F
SS 12-O-8090	16:50	Hydrogen permeation technique to assess SSC resistance of HSLA steels <u>F. Thébault</u> , H. El Alami, L. Delattre, H. Marchebois, V&M France CEV, Aulnoye-Aymeries/F; M. Hörstemeier, Salzgitter Mannesmann Forschung, Duisburg/D
SS 12-O-8065	17:10 – 17:30	New evaluation and qualification protocol for stainless steel tubulars for H₂S/CO₂ service <u>R. Kane</u> , iCorrosion LLC, Houston, TX/USA; J. Meng, B. Chambers, Honeywell International, Inc., Houston, TX/USA; J. Skogsberg, Consultant, Houston, TX/USA
	17:50	Poster Session
	19:00	Opening of Exhibition
		<i>Simulation, Modelling and Life Prediction</i>
	Chairs:	R. Oltra, University of Bourgogne, Dijon/F & M. Vankeerberghen, SCK-CEN, Mol/B
WS C-O-8428	14:00	KMC simulation of the passivation of iron-chromium alloys using a virtual oxide layer model <u>B. Diawara</u> , Y.-A. Beh, P. Marcus, Ecole Nationale Supérieure de Chimie, Paris/F
WS C-O-8114	14:20	Determining the depassivation pH of stainless steels using a coupled modelling and experimental approach <u>B. Baroux</u> , B. Malki, INPG Grenoble, Saint Martin d'Herès/F
WS C-O-8336	14:40	Modelling the impedance of bi-layer passive films on metal surfaces D. Macdonald, Pennsylvania State University, University Park, PA/USA
WS C-K-8383	15:00	KEYNOTE LECTURE Modelling of current distributions in localized corrosion <u>J. Payer</u> , U. Landau, A. Agarwal, Case Western Reserve University, Cleveland, OH/USA
	15:40	<i>Coffee Break</i>
	Chairs:	R.A. Cottis, University of Manchester/UK & R. Oltra, University of Bourgogne, Dijon/F
WS C-O-8431	16:10	From local probing to predictive models in localized corrosion <u>B. Vuillemin</u> , R. Oltra, F. Thebault, University of Bourgogne, Dijon/F
WS C-O-8113	16:30	Influence of the alloying elements on pitting corrosion stainless steels: a modeling approach <u>B. Malki</u> , B. Baroux, INPG Grenoble, Saint Martin d'Herès/F
WS C-O-7959	16:50	Role of alkalization during microgalvanic corrosion on aluminum alloys: analysis by FEM modelling <u>R. Oltra</u> , Université de Bourgogne, Dijon/F; B. Malki, SIMAP/INP, Grenoble/F; F. Rechou, Université de Bourgogne, Dijon/F
	17:10	Short Presentations of Posters
	17:50	Poster Session
	19:00	Opening of Exhibition

		<i>Corrosion of Archaeological and Heritage Artefacts: from Mechanistic Studies to Conservation Strategies</i>
	Chairs:	I. Guillot, Université Paris 12-Val-de-Marne, Thiais/F & D. Neff, Laboratoire Pierre Süe, Gif-sur-Yvette/F
WS D-O-7895	14:00	Study of low crystallised phase structure to improve iron corrosion mechanism understanding <u>J. Monnier</u> , I. Guillot, Université Paris 12-Val-de-Marne, Thiais/F; E. Leroy, Institut de Chimie et des Matériaux Paris-Est, Thiais/F; S. Réguer, Synchrotron Soleil, St. Aubin/F; Ph. Dillmann, Laboratoire Pierre Süe and IRAMAT, Gif-sur-Yvette/F; A. Michalowicz, Université Paris 12-Val-de-Marne, Thiais/F
WS D-O-8119	14:20	Anoxic corrosion mechanisms investigation using deuterium tracing on archaeological analogues <u>M. Saheb</u> , D. Neff, P. Dillmann, P. Berger, Laboratoire Pierre Süe, Gif-sur-Yvette/F
WS D-O-8154	14:40	Microbiologically influenced corrosion process of archaeological iron nails from the XVIth century <u>C. Rémazeilles</u> , A. Dheilly, S. Sablé, I. Lanneluc, University of La Rochelle/F; D. Neff, CEA, Saclay/F; P. Refait, University of La Rochelle/F
WS D-O-8215	15:00	Storage effect on desalination treatment efficiency <u>F. Kergourlay</u> , CEA-LPS, Gif-sur-Yvette/F; E. Guilminot, Laboratoire Arc'Antique, Nantes/F; D. Neff, CEA-LPS, Paris/F; C. Remazeilles, LEMMA, La Rochelle/F; S. Reguer, Synchrotron SOLEIL, St-Aubin/F; P. Refait, LEMMA, La Rochelle/F; F. Nicot, LCRR, Draguignan/F; F. Mirambet, C2RMF, Paris/F; E. Foy, P. Dillmann, CEA-LPS, Gif-sur-Yvette/F
WS D-O-7953	15:20	Study of new environmentally safe protection systems for the conservation of iron artefact <u>F. Mirambet</u> , C2RMF, Paris & LMRH, Champs sur Marne/F; E. Rocca, Université de Nancy/F; S. Reguer, Synchrotron SOLEIL, Gif sur Yvette/F; S. Hollner, LRMH, Champs sur Marne/F
	15:40	<i>Coffee Break</i>
WS D-K-8433	16:10	KEYNOTE LECTURE In-situ time-resolved monitoring of copper corrosion <u>A. Adriaens</u> , Ghent University/B; M. Dowsett, University of Warwick/UK
WS D-O-7856	16:50	In situ measurement of oxygen consumption to estimate corrosion rates <u>H. Matthiesen</u> , National Museum of Denmark, Lyngby/DK; K. Wonsyld, Topsoe Fuel Cell, Lyngby/DK
WS D-O-7865	17:10	Intentional patina of metal archaeological artefacts; a non-destructive investigation of Egyptian and Roman museum treasures F. Mathis, Centre Européen d'Archéométrie, Liège/B; <u>M. Aucouturier</u> , D. Robcis, J. Castaing, C2RMF, Paris/F; F. Dall'Ava, Restorer, Paris/F; J. Salomon, L. Pichon, C2RMF, Paris/F; E. Delange, S. Descamps, Louvre Museum, Paris/F
WS D-O-8025	17:30	Stability of chemically and electrochemically formed patina and their versatile protection <u>T. Kosec</u> , Slovenian National Building and Civil Engineering Institute, Ljubljana/SLO; H. Otmacic Curkovic, E. Stupnisek-Lisac, University of Zagreb/HR; A. Legat, Slovenian National Building and Civil Engineering Institute, Ljubljana/SLO
	17:50	Poster Session
	19:00	Opening of Exhibition
		<i>Automotive Corrosion (WP 17)</i>
	Chairs:	F. Hannour, Corus Research, Development and Technology, IJmuiden/NL & V. Hariharan, Tata Motors Limited, Pune/IND
SS 16-K-5319	14:00	KEYNOTE LECTURE Basic strategy of anti-corrosion technology in Toyota <u>W. Murata</u> , Toyota Motor Europe/B; M. Ishii, Toyota Motor Corporation, Aichi/J
SS 16-O-7860	14:40	Corrosion stability of Zn-Al-Mg coatings in open and confined zones in conditions simulating automotive applications <u>T. Prosek</u> , N. Larche, French Corrosion Institute, Brest/F; M. Vlot, Corus, IJmuiden/NL; F. Goodwin, IZA, Durham, NC/USA; D. Thierry, French Corrosion Institute, Brest/F
SS 16-O-8007	15:00	Corrosion resistance of different stainless steels in automotive exhaust industry <u>M. Yasir</u> , EMCON Technologies Germany GmbH, Augsburg/D; B. Willers, University of Augsburg/D; G. Mori, University of Leoben/A; U. Troeger, H. Wieser, EMCON Technologies Germany GmbH, Augsburg/D

SS 16-O-7880	15:20	Influence of microstructure on the corrosion performance of dual phase steels D. Farias, Materials Innovation Institute M2i/Delft University of Technology/NL; J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Material Innovation Institute M2i/Vrij Universiteit Brussel/B; J.H.W. de Wit, Materials Innovation Institute M2i/Delft University of Technology/NL; F. Hannour, Corus Research, Development and Technology, Ijmuiden/NL
	15:40	<i>Coffee Break</i>
SS 16-O-8354	16:10	Effect of environmental conditions on zinc durability under road tunnel I. Boudabbous, Université de Tunis and Rouen, St Etienne Rouvray/TN; J. Kasperek, Université de Rouen, St Etienne Rouvray/F; N. Bellakhal, Institut National des Sciences Appliquées et de Technologie (INSAT), Tunis/TN; F. Harel, Direction Interdépartementale des Routes, Darnetal/F; B. Hannover, Université de Rouen, St Etienne Rouvray/F
SS 16-O-8386	16:30	Monitoring of electrochemical parameters during cyclic salt spray tests D. Jerolitsch, K. Krenn, CEST - Centre of Electrochemical Surface Technology, Wr.Neustadt/A; H. Schnattinger, D. Bluecher, AUDI AG, Ingolstadt/D; K.-H. Stellnberger, voestalpine Stahl GmbH, Linz/A; M. Roth, Henkel AG & Co.KGaa, Wien/A; G. Faflek, Vienna University of Technology/A
SS 16-O-5318	16:50	Gas condensates corrosion behaviour of stainless steel used for automotive exhaust applications J. Sorbe, A. Antoni, J. Lagier, A. Gourhaud, A. Salib, FAURECIA Exhaust Systems, Bavans/F
SS 16-O-8427	17:10	EIS analysis of cerium based conversion coatings on electroplated zinc steel sheet Y. Song, H.-S. Han, J.-R. Lee, POSCO Technical Research Laboratories, Gwangyang, Jeonnam/ROK
SS 16-O-7775	17:30	Lifetime prediction of painted car body via coating permeation resistance F. Ezginer, BMW AG, Munich and University of Erlangen/D; M. Laude, BMW AG, Munich/D; S. Virtanen, University of Erlangen/D
	17:50	Poster Session
	19:00	Opening of Exhibition
		Tuesday, 8 September 2009
		Coatings (WP 14)
	Chairs:	D. Thierry, French Corrosion Institute, Brest/F & P.L. Bonora, University of Trento/I
SS 5-O-7808	08:40	The role of stress and topcoat properties in blistering of coil-coated materials T. Prosek, A. Nazarov, French Corrosion Institute, Brest/F; M.-G. Olivier, C. Vanderliers, Faculté Polytechnique de Mons/B; D. Koberg, BASF Coatings AG, Münster/D; D. Thierry, French Corrosion Institute, Brest/F
SS 5-O-8140	09:00	Performance of conformal coatings on electronic printed circuit boards under harsh environmental conditions U. Rathinavelu, M.S. Jellesen, P. Møller, R. Ambat, Technical University of Denmark, Lyngby/DK
SS 5-O-8211	09:20	Improving coating performance using carbon nanotubes M. Iannuzzi, K. Evans, N. Sridhar, Det Norske Veritas, Dublin, OH/USA
SS 5-O-8282	09:40	Investigation of degradation processes at defective coated metals by scanning electrochemical microscopy using oxygen as redox mediator J.J. Santana, University of Las Palmas de Gran Canaria/E; J. Pérez-Izquierdo, S. González, R.M. Souto, University of La Laguna, Tenerife/E
SS 5-O-8375	10:00	FTIR, a powerful technique in organic coatings failure diagnosis M.R. Costa, M.T. Santos, T.F. Diamantino, INETI, Lisboa/P
	10:20	<i>Coffee Break</i>
SS 5-O-8147	10:50	Study of the protection mechanisms offered by incorporation of organically modified clay in epoxy resin H. To Thin Xuan, T. Trinh Han, Laboratory for Protective Coatings, Institute for Tropical Technology, Hanoi/VN; N. Pébère, Université de Toulouse/F; M.-G. Olivier, Faculté Polytechnique de Mons/B

SS 5-O-8174	11:10	Towards the development of environmentally friendly self-healing anticorrosive coatings S.J. Garcia, J.M.C. Mol, Delft University of Technology/NL; T.H. Muster, A.E. Hughes, T. Markley, T. Harvey, N. Sherman, S. Hardin, P. Corrigan, D. Lau, P.A. White, M. Glenn, J. Mardel, CSIRO, Clayton/AUS; H. Fischer, TNO Industry and Technology, Eindhoven/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. De Wit, Delft University of Technology/NL
SS 5-O-8173	11:30	Reduction of corrosion protection properties of organic coatings caused by abrasion or erosion damage S. Rossi, <u>F. Deflorian</u> , Y. Reyes-Mercado, M. Fedel, University of Trento/I
SS 5-O-8044	11:50	Methods for mitigation of corrosion under insulation (C.U.I.) and other crevice corrosion S. Eastham, <u>R. Norsworthy</u> , Polyguard Products, Ennis, TX/USA
SS 5-O-8185	12:10	Environmentally friendly Zr based nano structured conversion coating for HRS (Hot Rolled Steel) in powder coating <u>B. Tepe</u> , B. Gunay, University of Ulster, Co. Antrim/UK
	12:30	<i>Lunchtime</i>
	Chairs:	J. Vogelsang, Sika Technology AG, Zürich/CH & M.F. Montemor, Instituto Superior Técnico, Lisboa/P
SS 5-K-8062	14:00	KEYNOTE LECTURE Preparation of corrosion protective coatings on galvanized steel from amine-cured epoxy hybrids prepared by sol-gel method C.R. Martins, R. Andrade, Federal University of São Paulo, Diadema/BR; <u>I.V. Aoki</u> , University of São Paulo/BR
SS 5-O-8371	14:40	Performance of paint systems after UHP waterjetting on shop primer coated steel substrate for new construction in naval industry <u>P. Le Calve</u> , DCNS, La Montagne/F; J.-P. Pautasso, DGA, Bagnaux/F; N. Le Bozec, Institut de la Corrosion, Brest/F
SS 5-O-8058	15:00	Novel arrangements and data analysis methods to enable the electrochemical noise method to assess coatings more effectively <u>D. Mills</u> , University of Northampton/UK; C. Woodcock, Liquid Plastics Ltd., Preston/UK; S. Jamali, University of Northampton/UK
SS 5-O-8138	15:20	Corrosion protection of commercial vehicles by using water based coating systems <u>B. Kozak</u> , M. Giray, Temsa Research Development and Technology Corp., Kocaeli/TR; H. Paulussen, Du Pont de Nemours, Mechelen/B
	15:40	<i>Coffee Break</i>
SS 5-O-7913	16:10	Characterization and corrosion properties of hybrid organic / silicon based coatings deposited by wet and plasma deposition methods on Al substrates F. Brusciotti, Vrije Universiteit Brussel/B; A. Batan, Université Libre de Bruxelles, Brussels/B; I. De Graeve, Vrije Universiteit Brussel/B; M. Wenkin, Coating Research Institute, Limelette/B; F. Reniers, Université Libre de Bruxelles, Brussels/B; J.J. Pireaux, University of Namur/B; M. Piens, Coating Research Institute, Limelette/B; J. Vereecken, <u>H. Terryn</u> , Vrije Universiteit Brussel/B
SS 5-O-8085	16:30	Investigation of sol-gel coatings containing Ce for the corrosion protection of aluminium alloys <u>J. Esteban</u> , E. Xuereb, F. Ansart, J.-P. Bonino, Université de Toulouse/F; J.-C. Dupin, D. Gonbeau, Université de Pau/F; F. Pilla, C. Malfatti, Universidade Federal de Rio Grande, Porto Alegre/BR
SS 5-O-8089	16:50	Anti-corrosion properties of organosilicon plasma polymer coatings filled with cerium nanoparticles deposited for protection of galvanized steel <u>D. Del Frari</u> , J. Bour, J. Bardou, D. Ruch, Centre de Recherche Public Henri Tudor, Esch-sur-Alzette/L
SS 5-O-7816	17:10	Zirconia based ceramic coatings for magnesium alloys <u>A.S. Hamdy</u> , M. Farahat, Central Metallurgical Research and Development Institute, Cairo/ET
	17:30	
	17:50	Poster Session

		Corrosion Mechanisms & Methods (WP 6 & 8)
	Chairs:	P. Marcus, Ecole Nationale Supérieure de Chimie, Paris/F & F. Di Quarto, Università di Palermo/I
SS 3-K-8128	08:40	KEYNOTE LECTURE Reliability of electrochemical noise measurements - part 1: results of round-robin testing on electrochemical noise R.-W. Bosch, SCK-CEN, Mol/B; R.A. Cottis, University of Manchester/UK; K. Csecs, T. Dorsch, Areva, Erlangen/D; L. Dunbar, Serco Assurance, Warrington/UK; A. Heyn, University of Magdeburg/D; A. Horner, Serco Assurance, Warrington/UK; F. Huet, Université Pierre et Marie Curie, Paris/F; O. Hyökyvirta, VTT Materials and Building, Helsinki/FIN; Z. Kerner, Atomic Energy Research Institute, Budapest/H; A. Legat, Slovenian National Building and Civil Engineering Institute, Ljubljana/SLO; J. Macak, Institute of Chemical Technology, Prague/CZ; A. Molander, Studsvik Nuclear AB, Nyköping/S; R. Novotny, EC Joint Research Centre, Petten/NL; J. Öijerholm, Studsvik Nuclear AB, Nyköping/S; S. Ritter, Paul Scherrer Institute, Villigen/CH; J.-M. Sanchez-Amaya, University of Cadiz/E
SS 3-O-8182	09:20	Direct observation of elemental dissolution during cyclic active-passive transitions of stainless steel K. Ogle, M. Mokaddem, P. Volovitch, Ecole Nationale Supérieure de Chimie de Paris/F
SS 3-O-8187	09:40	In situ oxidation of green rusts by deprotonation versus dissolution-precipitation mechanism during wet corrosion of iron - the passivation of weathering steels J.M. Génin, A. Renard, C. Ruby, Université Henri Poincaré, Vandoeuvre lès Nancy/F
SS 3-O-8046	10:00	Reliability of electrochemical noise measurements. Part 2: First ECG-COMON guideline for an assessment of electrochemical noise measurement devices S. Ritter, Paul Scherrer Institute, Villigen PSI/CH; F. Huet, Université Pierre et Marie Curie, Paris/F; R.A. Cottis, University of Manchester/UK
	10:20	<i>Coffee Break</i>
SS 3-O-7772	10:50	Corrosion products on Zn-Al and Zn-Al-Mg coated steel upon long-term weathering exposure in marine atmosphere D. Thierry, G. Schulz, French Corrosion Institute, Brest/F; D. Persson, Swerea KIMAB, Stockholm/S
SS 3-O-7791	11:10	Electrochemical and corrosion properties of zinc covered by different oxides A. Nazarov, French Corrosion Institute, Brest/F; D. Persson, Swerea KIMAB, Stockholm/S; D. Thierry, French Corrosion Institute, Brest/F
SS 3-O-7962	11:30	Corrosion behaviour and properties of Zn-Al-Mg coated steel S. Schuerz, University of Leoben, Linz/A; G.H. Luckeneder, M. Fleischanderl, K.-H. Stellnberger, K. Preis, voestalpine Stahl Linz/A; G. Mori, University of Leoben/A
SS 3-O-8327	11:50	Formation of surface oxides on 13% chromium stainless steel O. Knudsen, SINTEF Materials and Chemistry, Trondheim/N; T. Devine, University of California, Berkeley, CA/USA
SS 3-O-8096	12:10	Some consequences of the emergence of plastic strain on corrosion processes C. Lekbir, D. Large, H. El Alami, J. Bouhattate, C. Huvier, J. Creus, R. Sabot, C. Savall, X. Feaugas, Université de La Rochelle/F
	12:30	<i>Lunchtime</i>
	Chairs:	V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F & H. Terryn, Vrije Universiteit Brussel/B
SS 3-O-7752	14:00	Stress corrosion cracking of CrNi martensitic stainless steels for steam turbine blades C.L. Verona, R.L. Higginson, Loughborough University/UK
SS 3-O-8224	14:20	The role of iron impurities in the mechanism of localised corrosion on magnesium G. Williams, R. Grace, H.N. McMurray, Swansea University/UK
SS 3-O-8136	14:40	Corrosion behaviour of magnesium alloys containing rare earths as alloying elements R. Pinto, M.J. Carmezim, M.G.S. Ferreira, M.F. Montemor, Instituto Superior Técnico, Lisboa/P
SS 3-K-7813	15:00	KEYNOTE LECTURE In-situ synchrotron (USAXS) analysis of etch products formed during pitting of Al J.A. Hamons, University of Birmingham/UK; O. Blajiev, Vrije Universiteit Brussel/B; T. Rayment, University of Birmingham/UK; M. Raes, I. Vandendael, A. Hubin, Vrije Universiteit Brussel/B; A. Davenport, University of Birmingham/UK; H. Terryn, Vrije Universiteit Brussel/B
	15:40	<i>Coffee Break</i>

	Chairs:	V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F & R. Oltra, ICB, Dijon/F
SS 3-O-8112	16:10	Electrochemical behaviour of bare and coated magnesium alloys <u>V. Marzocchi</u> , G. Castagnola, University of Naples "Federico II"/I; C. Testani, Centro Sviluppo dei Materiali Spa, Rome/I; T. Monetta, F. Bellucci, University of Naples "Federico II"/I
SS 3-O-8322	16:30	Effect of lead on the microstructure and corrosion behaviour of twin roll cast AZ91D magnesium alloy strip S. Pawar, X. Zhou, The University of Manchester/UK; Z. Fan, G.M. Scamans, Brunel University, London/UK; G.E. Thompson, The University of Manchester/UK
SS 3-O-8080	16:50	Evaluation and screening of the pre-treatment states of Mg-alloys using electrochemical noise S. Bender, <u>A. Heyn</u> , Otto-von-Guericke-Universität Magdeburg/D
SS 3-O-8052	17:10	Corrosion of some selected ceramic alloys used in fixed partial dentures and their post solder-joints in Fusayama's synthetic saliva <u>P. De March</u> , P. Berthod, Université Nancy 1, Vandoeuvre les Nancy/F
SS 3-O-7863	17:30	Mott-Schottky analysis of differential capacitance data of passive-film electrolyte junctions. Is it really providing correct physical insights on the electronic properties of passive films and corrosion layers? F. La Mantia, Stanford University/USA; M.V. Diamanti, Politecnico di Milano/I; M. Santamaria, <u>F. Di Quarto</u> , Università di Palermo/I
	17:50	Poster Session
		Corrosion and Scale Inhibition (WP 1)
	Chairs:	G. Schmitt, IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D & Yu.I. Kuznetsov, Russian Academy of Sciences, Moscow/RUS
SS 1-K-7995	08:40	KEYNOTE LECTURE Progress in protection of metals with volatile corrosion inhibitors <u>Yu.I. Kuznetsov</u> , N.N. Andreev, Russian Academy of Sciences, Moscow/RUS
SS 1-O-7786	09:20	Electrochemical and quantum chemical study of 2,5-bis(n-pyridyl)-1,2,4-oxadiazoles as corrosion inhibitors for carbon steel in 1 M HCl solution M. Lagrenée, M. Outirite, ENSCL, Villeneuve d'Ascq/F; H. Vezin, USTL, Villeneuve d'Ascq/F; <u>F. Bentiss</u> , Université Chouaib Doukkali, El Jadida/MA
SS 1-O-7790	09:40	Corrosion control of mild steel using 3,5-bis(4-methoxyphenyl)-4-amino-1,2,4-triazole in 1 M HCl medium: gravimetric, electrochemical and X-ray photoelectron spectroscopy studies <u>M. Traisnel</u> , ENSCL, Villeneuve d'Ascq/F; F. Bentiss, B. Memari, Université Chouaib Doukkali, El Jadida/MA; M. Lagrenée, ENSCL, Villeneuve d'Ascq/F
SS 1-O-8061	10:00	Influence of pH on usual low carbon steel corrosion inhibition with alkaloids A. Lecante, V. Eparvier, F. Robert, P.-A. Blandinières, D. Stien, <u>C. Roos</u> , Université Antilles Guyane, Cayenne/FGY
	10:20	<i>Coffee Break</i>
SS 1-O-7932	10:50	Evaluation of inhibitive properties of environmentally friendly plant extracts using polarisation curves <u>I. Lingvay</u> , National Institute for Research and Development in Electrical Engineering INCDIE ICPE-CA, Bucharest/RO; D.I. Vaireanu, A. Cojocaru, University Politehnica of Bucharest/RO; L. Parvu, Nationale Institute of Chemical-Pharmaceutical Research and Development, Bucharest/RO; I. Maior, University Politehnica of Bucharest/RO; I. Nita, Nationale Institute of Chemical-Pharmaceutical Research and Development, Bucharest/RO; C. Lingvay, National Institute for Research and Development in Electrical Engineering INCDIE ICPE-CA, Bucharest/RO
SS 1-O-7766	11:10	Two layer system for long term corrosion protection in unpredictable environments <u>E. Lyublinski</u> , Y. Vaks, Northern Technologies International Corporation, Beachwood, OH/USA; R. Singh, ZERUST, Sao Paulo/BR; N. Sriram, HARITA-NTI, Chennai/IND; A. Taylor, ZERUST-U.K. Limited, Spennymoor/UK
SS 1-O-7742	11:30	Self assembling molecules as corrosion inhibitors for the 1050 aluminium alloy W.A.S. Izaltino, S.L. Assis, S. Souza, D.S. Yoshikawa, <u>I. Costa</u> , IPEN/CNEN, São Paulo/BR

SS 1-O-7879	11:50	Corrosion prevention of copper by self-assembled monolayer of 4-amino-3-(octadecylthio)-6-methyl-1,2,4-triazinone B.V. Apparao, M.D. Yakubiqbal, National Institute of Technology Warangal/IND; B. Sreedhar, Indian Institute of Chemical Technology, Hyderabad/IND
SS 1-O-8298	12:10	Toluidine-N-salicylidenes as corrosion inhibitors for Al-Mg alloy (AA 5052) in hydrochloric acid J.D. Talati, N.K. Shah, P.T. Trivedi, M.D. Shah, Gujarat University, Ahmedabad/IND
	12:30	<i>Lunchtime</i>
		Joint Session Corrosion and Scale Inhibition (WP 1) & Corrosion in Oil & Gas Production (WP 13)
	Chairs:	G. Schmitt, IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D & T. Chevrot, Total E&P, Paris-La Défense/F
SS 1-O-8396	14:00	Development of multifunction additives for oil and gas production T.E. Pou, Arkema/Ceca, Pierre Benite/F
SS 1-O-8070	14:20	Laboratory studies of top of the line corrosion control by chemical treatment D. John, C. Lomas, S. Bailey, Curtin University of Technology, Perth/AUS
SS 1-O-7896	14:40 – 15:00	Inhibition characteristics of an imidazoline base inhibitor and its components on pipeline steel in CO₂-saturated solutions P. Okafor, University of Calabar/WAN; C.B. Liu, X. Liu, Y.G. Zheng, State Key Laboratory for Corrosion and Protection, Shenyang/PRC; F. Wang, C.Y. Liu, F. Wang, Jilin Oilfield Corporation of PetroChina, Songyuan/PRC
	15:40	<i>Coffee Break</i>
SS 12-O-8024	16:10	Testing of inhibitors for underdeposit corrosion in sour conditions G. Hinds, P. Cooling, A. Turnbull, National Physical Laboratory, Middlesex/UK
SS 12-O-7806	16:30	Steel protection by corrosion inhibitors in mineralized water in oil and gas industries R.K. Vagapov, GAZPROM - VNIIGAZ, Moscow/RUS; Yu.I. Kuznetsov, R.V. Igoshin, L.V. Frolova, Russian Academy of Science, Moscow/RUS
SS 12-O-7906	16:50	A novel Schiff base-based cationic gemini surfactants: synthesis and effect on corrosion inhibition of carbon steel in hydrochloric acid solution M.A. Hegazy, Egyptian Petroleum Research Institute, Cairo/ET
SS 1-O-7753	17:10 – 17:30	Inhibitor effect against carbon steel corrosion and hydrogen entry into the metal in media containing H₂S and CO₂ L.E. Tsygankova, Derzhavin State University, Tambov/RUS; V.I. Vigdorovich, N.V. Shel, Tambov State Technical University/RUS
	17:50	Poster Session
		Corrosion Issues in Future High Temperature Nuclear Systems
	Chairs:	M. Schütze, DECHEMA e.V., Frankfurt am Main/D & D. Féron, CEA, Gif-sur-Yvette/F
WS G-O-8026	08:40	Micro-analysis of 316L stainless-steel after long-term exposure to lead-bismuth eutectic at 550°C C. Schroer, E. Nold, J. Konys, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen/D
WS G-O-8151	09:00	Study of corrosion mechanism of T91 (Fe-9Cr) steel in Pb-Bi alloy containing low oxygen concentration N. El Hassan, L. Martinelli, Commissariat à l'Energie Atomique - CEA, Gif-sur-Yvette/F
WS G-O-8165	09:20	A flat specimen corrosion cell for molten solids P. Lupotto, Materials Mates Italia srl, Milano/I; S. Rondinini, Università degli Studi Milano/I; M. Imeri, Materials Mates Italia srl, Milano/I
WS G-O-8342	09:40	Corrosion behaviour of PM2000 and MA956 steels in stagnant lead at 600°C and 700°C L. Soler Crespo, F.J. Martín Muñoz, D. Gómez Briceño, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Madrid/E
WS G-O-8387	10:00	Corrosion behaviour of different metallic materials under carbon dioxide at 550°C F. Rouillard, CEA, Gif sur Yvette/F; F. Charton, CEA, Marcoule/F; G. Moine, C. Desgranges, L. Martinelli, CEA, Gif sur Yvette/F
	10:20	<i>Coffee Break</i>

	Chairs:	M. Schütze, DECHEMA e.V., Frankfurt am Main/D & C. Richet, CEA Saclay, Gif sur Yvette/F
WS G-O-8443	10:50	Mitigation of corrosion and mass transfer in sodium-cooled Fast Reactors C. Latgé, CEA, Saint-Paul-les-Durance/F; D. Féron, CEA, Gif-sur-Yvette/F
WS G-O-7910	11:10	Evaluation of the corrosion, reactivity and chemistry control aspects for the selection of an alternative coolant in the secondary circuit of sodium fast reactors L. Brissonneau, CEA Cadarache, Saint Paul lez Durance/F; F. Balbaud-Célerier, CEA Saclay, Gif sur Yvette/F; N. Simon, CEA Cadarache, Saint Paul lez Durance/F; J.-L. Courouau, M. Martinelli, CEA Saclay, Gif sur Yvette/F; V. Grabon, Areva NP, Lyon/F; A. Capitaine, EdF Septen, Lyon/F; O. Conocar, CEA Marcoule, Bagnols sur Cèze/F; M. Blat, EdF R&D, Chatou/F
WS G-O-8074	11:30	Compatibility of zirconium alloy with high temperature sodium T. Furukawa, S. Kato, S. Maeda, Japan Atomic Energy Agency, Ibaraki/J
WS G-K-5315	11:50	KEYNOTE LECTURE Key issues on materials compatibility and related technologies for transmutation systems C. Fazio, Forschungszentrum Karlsruhe/D
	12:30	<i>Lunchtime</i>
WS G-O-8441	14:00	Iodine - sulfur thermochemical cycle for hydrogen mass production R. Moore, Sandia National Laboratories, Livermore, CA/USA; B. Russ, W. Sweet, General Atomics Corporation, San Diego, CA/USA; M. Hélie, N. Pons, CEA, Gif-sur-Yvette/F
WS G-O-8440	14:20 – 14:40	The effect of surface finish on uniform corrosion of stainless steels in supercritical water M. Payet, P. Arnoux, J.-P. Chevalier, Conservatoire National des Arts et Métiers, Paris/F
	15:40	<i>Coffee Break</i>
		Nuclear Corrosion (WP 4)
	Chairs:	D. Féron, CEA, Gif-sur-Yvette/F & R. Kilian, Areva NP GmbH, Erlangen/D
SS 11-K-7770	16:10	KEYNOTE LECTURE Multiple nano elements of SCC--transition from phenomenology to predictive mechanistic R.W. Staehle, StaehleConsulting, North Oaks, MN/USA
SS 11-O-8048	16:50	EDF program on SCC initiation of cold-worked stainless steels in primary water P. Huguenin, F. Vaillant, EDF R&D, Moret sur Loing/F; L. Buisse, EDF, Noisy le Grand/F; J. Crépin, C. Duhamel, H. Proudhon, ENSMP, Evry/F
SS 11-O-7861	17:10	SCC of cold-worked austenitic stainless steels exposed to PWR primary water conditions: susceptibility to initiation E. Herms, O. Raquet, L. Sejourne, CEA Saclay, Gif sur Yvette/F; F. Vaillant, EDF R&D, Les Renardieres/F
SS 11-O-7954	17:30	Oxidation of 316L SS exposed to PWR primary water A. Herbelin, Ecole Nationale Supérieure des Mines de Saint Etienne, Moret-sur-Loing/F; D. Delafosse, EDF R&D, Saint Etienne/F; L. Legras, T. Couvant, EDF R&D, Moret-sur-Loing/F
	17:50	Poster Session
		Corrosion of Steel in Concrete (WP 11) - Memorial Session of Prof. Pedferri
	Chairs:	L. Bertolini, Politecnico di Milano/I & V. Bouteiller, LCPC, Paris/F
SS 15-K-5314	08:40	KEYNOTE LECTURE T. Couvant, EDF R&D, Moret-sur-Loing/F7 Pietro Pedferri's great contribution on understanding corrosion in concrete L. Lazzari, Politecnico di Milano/I
SS 15-O-8405	09:20	Ten year results of galvanic sacrificial anodes in steel reinforced concrete G. Sergi, Vector Corrosion Technologies Ltd., Walsall/UK
SS 15-O-8397	09:40	Hydrogen induced cracking of prestressing steel in concrete constructions - reasons and prevention U. Nürnberger, University of Stuttgart/D
SS 15-O-8409	10:00	Prestressing steel beams corrosion: methodologies to determine the chloride threshold M. Sánchez, C. Alonso, F.J. Recio, IETcc - CSIC, Madrid/E
	10:20	<i>Coffee Break</i>

SS 15-O-8399	10:50	Coin - and durability of structures Ø. Vennesland, U. Angst, Norwegian University of Science and Technology (NTNU), Trondheim/N; T. Hammer, SINTEF Building and Infrastructure, Trondheim/N
SS 15-O-8415	11:10	Characterization of passivation products on galvanized steel reinforcements in conditions of concrete carbonation T. Bellezze, G. Roventi, E. Barbaresi, N. Ruffini, R. Fratesi, Università Politecnica delle Marche, Ancona/I
SS 15-O-8398	11:30	Evaluation of deterioration in reinforced concrete structures by AE technique E. Proverbio, University of Messina/I
SS 15-O-8426	11:50	Impedance spectroscopy: an efficient tool to determine the non steady state chloride diffusion coefficient in building materials M.A. Climent, M.P. Lopez, I. Sanchez, University of Alicante/E
SS 15-O-8425	12:10	Vevera Viaduct: twenty years of corrosion monitoring A. Mercalli, Autostrade per l'Italia, Romagnano Sesia (NO)/I; R. Cigna, Isproma, Rome/I
	12:30	<i>Lunchtime</i>
	Chairs:	Ø. Vennesland, Norwegian University of Science and Technology (NTNU), Trondheim/N & D. Koleva, Delft University of Technology/NL
SS 15-K-8408	14:00	KEYNOTE LECTURE Early stage beneficial effects of cathodic protection in concrete structures R.B. Polder, W.H.A. Peelen, B.Th.J. Stoop, E.A.C. Neeft, TNO Built Environment and Geosciences at the Technical University Delft/NL
SS 15-O-8410	14:40	Passive films on stainless steels in alkaline solutions - reason for stability B. Elsener, ETH Zurich/CH; D. Addari, A. Rossi, University of Cagliari/I
SS 15-O-8413	15:00	Corrosion resistance of austenitic and low-nickel duplex stainless steel bars L. Bertolini, M. Gastaldi, Politecnico di Milano/I
	15:20	
	15:40	<i>Coffee Break</i>
SS 15-O-8404	16:10	Organic substances as inhibitors for chloride-induced corrosion in concrete L. Lazzari, MP. Pedferri, M. Ormellese, F. Bolzoni, Politecnico di Milano/I; P. Zaffaroni, A. Collina, MAPEI SpA/I
SS 15-O-8393	16:30	Influence of two specific inhibitors on steel corrosion in a synthetic solution simulating a carbonated concrete with chlorides A. Frignani, C. Monticelli, V. Grassi, F. Zucchi, G. Trabanelli, University of Ferrara/I
SS 15-O-8430	16:50	Inhibition effect of lactate on localized corrosion of steel in chloride contaminated concrete T. Pastore, M. Cabrini, L. Coppola, S. Lorenzi, P. Marcelloni, Università di Bergamo/I
SS 15-O-8401	17:10	Contact-less impedance method for measuring the corrosion rate of steel in concrete M. Keddad, CNRS, LISE, UPMC, Paris/F; X.R. Nova, Universidade de Vigo/E; V. Vivier, CNRS, LISE, UPMC, Paris/F
SS 15-O-7978	17:30	Electrochemical protection of steel in concrete G. Glass, University of Birmingham, Lichfield/UK
	17:50	Poster Session
		Corrosion in Oil & Gas Production (WP 13)
	Chairs:	T. Chevrot, Total E&P, Paris-La Défense/F & J. Kittel, IFP-Lyon, Solaize/F
SS 12-O-7888	09:00	Corrosion in amine units for acid gas treatment: a laboratory study E. Fleury, J. Kittel, IFP-Lyon, Solaize/F; B. Vuillemin, R. Oltra, ICB, Dijon/F; F. Ropital, IFP-Lyon, Solaize/F
SS 12-O-8291	09:20	Failure of 25CR super-duplex stainless steel umbilical tubes in a tropical environment S. Paterson, Shell UK Limited, Aberdeen/UK; B. Cowe, Brunei Shell Petroleum, Serai/BRU
SS 12-O-8168	09:40	Corrosion resistance of seamwelded and seamless super duplex tube J.R. Saithala, S. McCoy, Fine Tubes Ltd., Plymouth/UK; J.D. Atkinson, Sheffield Hallam University/UK; H.S. Ubhi, Oxford Instruments, Hobro/DK

SS 12-O-7960	10:00	Effect of temperature on Hydrogen Induced Stress Cracking (HISC) of UNS S32750 under cathodic protection in seawater <u>R. Johnsen</u> , Norwegian University of Science and Technology, Trondheim/N; O.E. Kongstein, B. Nyhus, SINTEF, Trondheim/N
	10:20	<i>Coffee Break</i>
SS 12-O-7825	10:50	Corrosion fatigue properties of Sandvik SAF 3207HD umbilical tubes <u>U. Kivisäkk</u> , G. Chai, AB Sandvik Materials Technology, Sandviken/S
SS 12-O-8116	11:10	Behaviour of some Ni-based alloys and stainless steel in plate heat exchanger conditions using chlorinated sea water <u>P. Houille</u> , Haynes International, Cergy-Pontoise/F; T. Cassagne, Total CSTJF, Pau/F; D. Festy, Institut de la Corrosion, Brest/F; D. Zuili, Technip, Paris/F; P. Bluzat, GEA-PHE System France, Montigny-le-Bretonneaux/F
SS 12-O-7945	11:30	Environmentally assisted cracking behavior of super 13Cr stainless steel under anodic polarization condition in carbon dioxide environment <u>T. Haruna</u> , Kansai University, Osaka/J; D. Motoya, H. Amaya, M. Ueda, Sumitomo Metal Ind., Wakayama/J
SS 12-O-7788	11:50	Weldability of precipitation strengthened oil and gas alloy 945 using 725 NDUR and 945 filler metals <u>S. Mannan</u> , R. Gollihue, Special Metals Corporation, Huntington, WV/USA
SS 12-O-8414	12:10	Stress corrosion cracking of titanium in aerated and deaerated high temperature methanol/sour brine environments <u>L. Smith</u> , BP, Sunbury-on-Thames/UK; C. Smith, BP, Aberdeen/UK; A. Leonard, BP, Staines/UK; M. Gittos, TWI, Cambridge/UK
	12:30	<i>Lunchtime</i>
		<i>Corrosion in Refinery Industry (WP 15, Joint EFC-NACE session)</i>
	Chairs:	F. Ropital, IFP, Solaize/F & H. de Bruyn, Borealis Group, Stathelle/N
SS 13-O-8232	14:00	Corrosion in crude distillation unit overhead operations: a comprehensive review <u>B. Chambers</u> , Honeywell International, Houston, TX/USA; S. Srinivasan, K. Yap, Honeywell Process Solutions, Houston, TX/USA; R. Kane, iCorrosion LLC, Houston, TX/USA
SS 13-O-8295	14:20	Factors affecting salt hydrolysis in heavy crude <u>P. Eaton</u> , Champion Technologies Inc., Houston, TX/USA; H. Kaur, M.R. Gray, University of Alberta, Edmonton/CDN
SS 13-O-7847	14:40	Changing crude oil quality and refinery corrosion inhibition <u>C. Claesen</u> , NALCO, Kontich/B; P. Thornthwaite, NALCO, Manchester/UK; S. Lordo, NALCO, Sugarland, TX/USA
SS 13-K-7905	15:00	KEYNOTE LECTURE Managing the cost of corrosion R. Tems, Saudi Aramco, Dhahran/SAR
	15:40	<i>Coffee Break</i>
SS 13-O-7894	16:10	Mechanism of carburisation and metal dusting of 2.25Cr-1Mo steel in catalytic reforming unit <u>J. Hucinska</u> , G. Gajowiec, Gdansk University of Technology/PL; D. Derewnicka, Institute of Precision Mechanics, Warszawa/PL
SS 13-O-7756	16:30	Effect of temper and hydrogen embrittlement on fracture mechanics and CNV properties of 2,25Cr1Mo steel grade - application to minimum pressurising temperature (MPT) issues <u>S. Pillot</u> , P. Bourges, Industeel Creusot, ArcelorMittal Group, Le Creusot/F; C. Chauvy, L. Coudreuse, Industeel Loire, ArcelorMittal Group, Rive de Gier/F; P. Toussaint, Industeel Belgium, ArcelorMittal Group, Charleroi/B; K. Orie, ArcelorMittal USA, ArcelorMittal Group, Coatesville/USA
SS 13-O-8051	16:50	Corrosion performance of nickel-based alloys in sodium hydroxide at high temperature <u>N. Meck</u> , N. Koon, K. Kruger, Haynes International, Inc., Kokomo, IN/USA
SS 13-O-8329	17:10	Characterization of sulfide layers formed in a refinery crude oil at 300°C on carbon steel, low alloy steel and stainless steel <u>M. El Kamel</u> , A. Galtayries, Ecole Nationale Supérieure de Chimie de Paris/F; B. Albinet, G. Foulonneau, X. Roumeau, B. Roncin, Centre Européen de Recherches et de Techniques, Groupe Total, Le Havre/F; P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F

SS 13-O-8131	17:30	Pitting corrosion of carbon steel in lean and rich systems in gas sweetening process with diglycolamine <u>M. Askari</u> , Pars Oil and Gas Company (POGC), Tehran/IR; M.A. Golozar, K. Raeissi, Isfahan University of Technology, Isfahan/IR; D. Masouri, Pars Oil and Gas Company (POGC), Tehran/IR
	17:50	Poster Session
		<i>Simulation, Modelling and Life Prediction</i>
	Chairs:	B. Baroux, INPG Grenoble, Saint Martin d'Herès/F & M. Vankeerberghen, SCK-CEN, Mol/B
WS C-O-8266	09:20	Using finite element modeling to determinate the origin of trenching in aluminum alloys <u>N. Murer</u> , The Ohio State University, Columbus, OH/USA; N.A. Missert, Sandia National Laboratories, Albuquerque, NM/USA; R.G. Buchheit, The Ohio State University, Columbus, OH/USA
WS C-O-8111	09:40	Modeling exfoliation corrosion in aluminum alloys B. Malki, INPG, Saint Martin d'Herès/F; <u>J. Stolarz</u> , Ecole Nationale Supérieure des Mines, Saint Etienne/F
WS C-O-8017	10:00	3-D simulation of intergranular stress corrosion crack interactions <u>Y. Zhang</u> , T.J. Marrow, A.H. Sherry, University of Manchester/UK
	10:20	<i>Coffee Break</i>
	Chairs:	B. Tribollet, Université Pierre et Marie Curie, Paris/F & B. Baroux, INPG Grenoble, Saint Martin d'Herès/F
WS C-O-8367	10:50	Empirical propagation laws of intergranular corrosion defects in 2024 alloy in chloride solutions C. Augustin, E. Andrieu, <u>C. Blanc</u> , ENSIACET, Toulouse/F; J. Delfosse, EADS IW, Suresnes/F; G. Odemer, ENSIACET, Toulouse/F
WS C-O-8290	11:10	Simulation of the grain size effect on the metal corrosion: corrosion rate, surface roughness, cluster detachment <u>A. Taleb</u> , J.P. Badiali, Université Pierre et Marie Curie, Paris/F; J. Stafiej, Institute of Physical Chemistry, Warsaw/PL
WS C-O-7982	11:30	Variable charge molecular dynamics studies of oxygen diffusion processes in Nickel leading to the formation of internal oxide nanoclusters S. Garruchet, <u>O. Politano</u> , Université de Bourgogne, Dijon/F; P. Arnoux, CEA Saclay, Gif sur Yvette/F; V. Vignal, Université de Bourgogne, Dijon/F
WS C-O-8370	11:50	Galvanic corrosion modelling for aircraft environments <u>A.B. Peratta</u> , CM BEASY, Southampton/UK; T. Hack, EADS, Munich/D; R.A. Adey, J.M.W. Baynham, CM BEASY, Southampton/UK; H. Lohner, AIRBUS, Hamburg/D
WS C-O-8233	12:10	Ionic modeling of field conditions: improvements over traditional laboratory approaches <u>B. Chambers</u> , Honeywell International, Houston, TX/USA; V. Lagad, S. Srinivasan, Honeywell Process Solutions, Houston, TX/USA; M. Yunovich, Honeywell International, Houston, TX/USA
	12:30	<i>Lunchtime</i>
	Chairs:	B. Vuillemin, University of Bourgogne, Dijon/F & B. Malki, INPG, Saint Martin d'Herès/F
WS C-O-8382	14:00	How corrosion intelligence can be used to select materials and manage corrosion risks in process industries J.P. Audouard, Resolcor Consulting, Saint-Etienne/F
WS C-O-8373	14:20	Flow accelerated corrosion in the secondary circuit media of pressurized water reactor nuclear power plant <u>A. Amimer</u> , N.P.C. Stevens, University of Manchester/UK; D. Noel, EDF, Moret-Sur-Loing/F
WS C-O-8259	14:40	Simulations using effective media theory for barrier coating failure prediction <u>B. Hinderliter</u> , S. Croll, North Dakota State University, Fargo, ND/USA
WS C-O-8036	15:00	Cut edge corrosion modelling <u>T. Machado Amorim</u> , C. Allély, ArcelorMittal Maizières R&D, Maizières les Metz/F; J.P. Caire, LEPMI-INPG, Grenoble/F
WS C-O-8109	15:20	Corrosion diagnosis from electrical measurements <u>A. Guibert</u> , J.-L. Coulomb, O. Chadebec, Grenoble-INP/F; C. Rannou, DGA/GESMA, Brest/F; R.P. Nogueira, SIMAP/LEPMI, Grenoble/F
	15:40	<i>Coffee Break</i>

		<i>Cathodic Protection in Seawater - Joint Session Cathodic Protection (WP 16) & Marine Corrosion (WP 9)</i>
	Chairs:	A.-M. Grolleau, DCNS Cherbourg, Cherbourg-Octeville/F & M. Roche, Le Mesnil-le Roi/F
SS 6-O-7773	16:10	Cathodic protection computer modeling - PROCOR validation based on physical scale modeling <u>J. Blanc</u> , Ministry of Defense, Arcueil/F; C. Rannou, Ministry of Defense, Brest/F; J.P. Pautasso, Ministry of Defense, Bagneux/F; A.M. Grolleau, DCNS, Cherbourg/F; E. Hogan, US Naval Research Laboratory, Key West, FL/USA
SS 6-O-8213	16:30	Effect of biofouling on cathodically protected carbon steel in shallow seawaters exposed to sunlight photoperid A. Benedetti, Istituto per l'Energetica e le Interfasi, IENI-CNR, Milano/I; D. Basso, M.C. Isella, Università degli Studi di Milano/I; M. Faimali, <u>G. Pavanello</u> , Istituto di Scienze Marine, ISMAR-CNR, Genova/I
SS 6-O-7795	16:50	Possible interactions between anti-fouling systems and ships' cathodic protection systems <u>A.-M. Grolleau</u> , H. Le Guyader, V. Debout, DCNS Cherbourg, Cherbourg-Octeville/F
SS 6-K-7907	17:10	KEYNOTE LECTURE In situ data collection for cathodic protection design <u>D. Festy</u> , French Corrosion Institute, Brest/F; D. Le Flour, Ifremer, Plouzane/F
	17:50	Poster Session
		<i>Corrosion of Archaeological and Heritage Artefacts: from Mechanistic Studies to Conservation Strategies</i>
	Chairs:	H. Matthiesen, National Museum of Denmark, Lyngby/DK & F. Mirambet, C2RMF, Paris/F
WS D-O-8380	08:40	Influence of alloying elements on the decupification / dezincification of outdoor bronzes in an urban area <u>S. Jouen</u> , M.T. Sougrati, B. Hannyoy, Université de Rouen, Saint Etienne du Rouvray/F
WS D-O-8226	09:00	Electrochemically synthesised bronze patina: characterisation and application to the cultural heritage <u>J. Muller</u> , B. Laïk, E. Leroy, G. Lorang, I. Guillot, CNRS, Thiais/F
WS D-O-8263	09:20	Investigation of the corrosion behaviour of pure copper in simulated rainwater of Sao Paulo R.P. Bendezu, M.M. Mennucci, University of Sao Paulo/BR; Z. Paszti, Hungarian Academy of Sciences, Budapest/H; I.V. Aoki, <u>H.G. de Melo</u> , University of Sao Paulo/BR
WS D-O-8314	09:40	Conservation of copper base artifacts using eco-friendly corrosion inhibitors <u>N. Abdel Ghany</u> , V. Gouda, National Research Centre, Cairo/ET
WS D-O-8265	10:00	On the unexpected colour of lead sculptures in Queluz M.C. Bernard, LISE-UPR15, Paris/F; V. Costa, IRRAP, Paris/F; <u>S. Joiret</u> , LISE-UPR15, Paris/F
	10:20	<i>Coffee Break</i>
WS D-O-8086	10:50	Corrosion of aluminium alloys of cultural heritage: analysis and diagnostics of aeronautic collection <u>E. Rocca</u> , Nancy University (UHP), Vandoeuvre Les Nancy/F; F. Mirambet, C2RMF, Paris/F; D. Vantelon, S. Reguer, Synchrotron Soleil, Gyf-sur-Yvette/F; C. Tilatti, Musée de l'Air et de l'Espace, Le Bourget/F
WS D-O-8219	11:10	Archeometric analysis of corroded glasses from the Antiquity up to the Middle Ages C. Messal, MICOR Gesellschaft für mikrobielle Prozesse und Materialkunde mbH, Groß Lüsewitz/D
WS D-O-7873	11:30 – 11:50	Atmospheric decay of stained glass windows: long terms assessment and simulation using analogues glasses <u>T. Lombardo</u> , University Paris 12, Créteil Cedex/F; C. Loisel, Laboratoire de Recherche des Monuments Historiques, Champs sur Marne/F; L. Gentaz, A. Chabas, A. Ionescu, University Paris 12, Créteil Cedex/F; D. Neff, CEA-CNRS, Saclay/F; I. Pallot-Frossard, Laboratoire de Recherche des Monuments Historiques, Champs sur Marne/F
	12:30	<i>Lunchtime</i>

		Workshop on Bio-Tribocorrosion
	Chairs:	M. Keddam, CNRS, LISE, UPMC, Paris/F & A. Igartua, Fundación Tekniker, Eibar/E
WS E-O-8083	14:40	Tribocorrosion properties of super duplex stainless steel in 3.4 % NaCl and H₂SO₄ 0.5 M solutions E. Jensen, N. Espallargas, R. Johnsen, Norwegian University of Science and Technology - NTNU, Trondheim/N; <u>C. von der Ohe</u> , National Oilwell Norway AS, Kristiansand/N
WS E-O-8081	15:00	Effect of pulsed plasma treatment on the tribo-corrosion behaviour of alloy 625 in 0.5M H₂SO₄ N. Espallargas, Norwegian University of Science and Technology - NTNU, Trondheim/N; <u>S. Mischler</u> , Ecole Polytechnique Fédérale de Lausanne - EPFL/CH; R. Johnsen, Norwegian University of Science and Technology - NTNU, Trondheim/N
WS E-O-8384	15:20	Corrosion-wear characterization of optimized m-DLC coatings on Ti6Al4V for knee joints <u>R. Bayón</u> , V. Sáenz de Viteri, A. Igartua, U. Ruiz de Gopegui, X. Fernández, C. Zubizarreta, Fundación Tekniker, Eibar/E
	15:40	<i>Coffee Break</i>
	Chairs:	A.I. Munoz, Universidad Politécnica de Valencia/E & B. Normand, Institut National des Sciences Appliquées - INSA, Villeurbanne/F
WS E-O-8011	16:10	Copper and aluminium tribocorrosion in acid medium: electrochemical impedance spectroscopy investigations <u>J. Geringer</u> , Ecole Nationale Supérieure des Mines de Saint-Etienne/F; B. Normand, C. Alemany-Dumont, R. Diemiaszonek, INSA Lyon, Villeurbanne/F
WS E-O-7912	16:30	Corrosion and tribocorrosion behaviour of age-hardened Al-10Si-4.5Cu-2Mg alloy <u>A.C. Vieira</u> , University of Minho, Guimaraes/P; S. Mischler, EPFL, Lausanne/CH; A.M. Pinto, L.A. Rocha, University of Minho, Guimaraes/P
WS E-O-8217	16:50	Tribocorrosion of ruthenium in sulphuric acid J. Stojadinovic, L. Mendia, D. Bouvet, M. Declercq, <u>S. Mischler</u> , EPFL, Lausanne/CH
	17:10	Short Presentations of Posters
	17:50	Poster Session
		Automotive Corrosion (WP 17)
	Chairs:	D.D. Macdonald, Pennsylvania State University, University Park, PA/USA & F. Hannour, Corus Research, Development and Technology, Ijmuiden/NL
SS 16-K-8439	08:40	KEYNOTE LECTURE Auto corrosion: emerging trends <u>V. Hariharan</u> , P. Bhaduria, Tata Motors Limited, Pune/IND
SS 16-O-8169	09:20	Effect of the surface oxide on the corrosion resistance of ferritic stainless steels in acidic solutions <u>Y. Kim</u> , POSCO, Pohang/ROK; H. Kim, Hong-Ik University, Jochiwon/ROK
SS 16-O-8184	09:40	Mechanisms of alcoholate corrosion of aluminium in alcohol blended biofuels <u>K. Wagner</u> , K. Eppel, T. Troßmann, C. Berger, Technische Universität Darmstadt/D
SS 16-O-5317	10:00	Functionalised nano-hybrid coating on galvanized steel sheet: a material for automotive industry <u>T.-K. Rout</u> , Corus RD&T, Ijmuiden/NL; N. Bandyopadhyay, Tata Steel RD&T, Jamshedpur/IND
	10:20	<i>Coffee Break</i>
	Chairs:	B. Normand, Institut National des Sciences Appliquées - INSA, Villeurbanne/F & F. Hannour, Corus Research, Development and Technology, Ijmuiden/NL
SS 16-O-7716	10:50	Electromagnetic induction corrosion control technology (EICCT) <u>D.D. Macdonald</u> , Pennsylvania State University, University Park, PA/USA; M. Lewis, Lewis Research & Engineering, Hartville, OH/USA; R. Peek, Canadian Auto Preservation, Inc., Concord, ON/CDN
SS 16-O-8164	11:10	Complex coolant corrosion testing in comparison to standard methods <u>G. Andersohn</u> , K. Eppel, T. Troßmann, C. Berger, Technische Universität Darmstadt/D
SS 16-O-8412	11:30	A new accelerated cyclic corrosion test for automotive substrates <u>F. Beier</u> , Salzgitter Mannesmann Forschung GmbH, Salzgitter/D; K.-H. Stellnberger, voestalpine Stahl, Linz/A; S. Geisler, Stahlinstitut VDEh, Duesseldorf/D

SS 16-O-8395	11:50	Corrosivity of road environment on a worldwide basis B. Rendahl, Swerea KIMAB, Stockholm/S; N. Lebozec, French Corrosion Institute, Brest/F
SS 16-O-7867	12:10	Study of the compatibility of metallic materials with bioethanol-gasoline blends A. Albístur-Goñi, A. Conde, J. de Damborenea, Centro Nacional de Investigaciones Metalúrgicas (CSIC), Madrid/E; C. Berlanga-Labari, J. Fernández-Carrasquilla, Universidad Pública de Navarra, Pamplona/E
	12:30	<i>Lunchtime</i>
		Short presentations by exhibitors
		Wednesday, 9 September 2009
		Coatings (WP 14)
	Chairs:	H. Terryn, Vrije Universiteit Brussel/B
SS 5-K-7916	08:40	KEYNOTE LECTURE Nanocontainer-based organic coatings with self-healing ability and termination of the corrosion propagation D. Shchukin, MPI of Colloids and Interfaces, Golm/D
SS 5-O-7957	09:20	Influence of sol-gel application conditions on metallic substrate for lighting applications M.-E. Druart, M. Olivier, Faculté Polytechnique de Mons/B; J.-B. Richir, C. Poirier, F. Maseri, ArcelorMittal Liège Research and Development/B; N. Godeau, L. Langer, Nanoxid, Liers/B
SS 5-O-7882	09:40	Multilayered nanoparticulate coatings for corrosion protection of magnesium alloys F. Feil, W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D
SS 5-O-8093	10:00	Investigations on synergistic effects of mixtures of different inhibitors incorporated in sol-gel coatings on the protection of AA 2024-T3 A. Wittmar, A. Barau, M. Wittmar, H. Caparrotti, M. Veith, INM - Leibniz Institute for New Materials, Saarbruecken/D
	10:20	<i>Coffee Break</i>
SS 5-O-8082	10:50	Anti- corrosion performance of BIS-sulphur silane films doped with CeO₂ nanoparticles activated with cerium (iii) ions F. Montemor, R. Pinto, Instituto Superior Técnico, Lisboa/P; M.G.S. Ferreira, University of Aveiro/P
SS 5-O-7992	11:10	Electromagnetic irradiation for corrosion termination E.V. Skorb, D.G. Shchukin, MPI of Colloids and Interfaces, Potsdam/Golm/D
SS 5-O-8424	11:30	ZrO₂ coatings deposited with sol-gel technique on light alloys F. Andreatta, L. Paussa, P. Aldighieri, A. Lanzutti, L. Fedrizzi, University of Udine/I
SS 5-O-8098	11:50	ORMOSIL coatings containing loaded nano-containers for corrosion protection of magnesium alloy ZK10 I.L. Danilidis, I.A. Kartsonakis, G.K. Kordas, National Center for Scientific Research "Demokritos", Ag. Paraskevi, Attiki/GR
SS 5-O-8227	12:10	Corrosion behaviour of AZ31 Magnesium alloy pre-treated with silane solutions modified with nanoparticle oxides F. Zanotto, V. Grassi, A. Frignani, C. Monticelli, A. Balbo, F. Zucchi, University of Ferrara/I
	12:30	<i>Lunchtime</i>
	Chairs:	G.D. Wilcox, Loughborough University/UK & M.-G. Olivier, Faculté Polytechnique de Mons/B
SS 5-O-8422	14:00	Novel sol gel coating for corrosion protection of aluminium alloy AA2024-T3 B. Duffy, P.C.R. Varma, Dublin Institute of Technology/IRL; M. Oubaha, C. McDonagh, Dublin City University/IRL; H. Hayden, J. Cassidy, J. Colreavy, Dublin Institute of Technology/IRL

SS 5-O-8129	14:20	Influence of the pH of hydrolysis of a tetrasulfide BIS-silane film doped with cerium (IV) on corrosion behaviour of coated galvanized steel V.R. Capelossi, P.H. Suegama, University of São Paulo/BR; M.F. Montemor, Technical University of Lisbon/P; I.V. Aoki, University of São Paulo/BR
SS 5-O-8115	14:40	Improving the corrosion protection properties of organically modified silicate coatings by incorporation of organic and inorganic inhibitors A. Balaskas, J. Kartsonakis, J. Daniilidis, G. Kordas, NCSR Demokritos, Aghia Paraskevi/GR
SS 5-O-7859	15:00 – 15:20	The influence of pretreatments on the interfacial bonding of epoxy coatings to AA2024-t3 alloys Ö. Özkanat, F.M. de Wit, Materials Innovation Institute (M2i), Delft/NL; J.M.C. Mol, Delft University of Technology/NL; H. Terryn, Vrije Universiteit Brussel/B; J.H.W. de Wit, Delft University of Technology/NL
	15:40	<i>Coffee Break</i>
SS 5-O-8418	16:10	Novel sealing process for anodised aluminium M. Whelan, M. Hidalgo, B. Duffy, Dublin Institute of Technology/IRL; P. Geoghegan, Graph Engineering Ltd., Dublin/IRL; T. Hyland, IRALCO, Dublin/IRL; J. Colreavy, Dublin Institute of Technology/IRL
SS 5-O-8000	16:30	Effect of steel substrate thickness on the microstructure and corrosion performance of Zn-4.8wt%Al alloy coatings J. Sullivan, C. Weirman, Swansea University/UK; D. Penney, Corus Colors, Shotton/UK
SS 5-O-8076	16:50	Metal structure modification as the way to improve corrosion resistance of Zn and Zn alloy electrodeposits R. Ramanauskas, L. Gudaviciute, A. Kosenko, Institute of Chemistry, Vilnius/LT
SS 5-O-8144	17:10	The use of scanning electrochemical microscopy (SECM) to identify electrochemically active features in thermally sprayed inconel 625 coatings M.S. Bakare, K.T. Voisey, D.A. Walsh, D.G. McCartney, University of Nottingham/UK
SS 5-O-7893	17:30	Aluminium coatings for corrosion protection applications S. Zein El Abedin, Clausthal University of Technology, Clausthal-Zellerfeld/D; N. Abdel Ghany, National Research Centre, Cairo/ET; A. Isamil, F. Endres, Clausthal University of Technology, Clausthal-Zellerfeld/D
	20:00	Conference Dinner
		Recent Advances in Surface Analytical Techniques and Applications to Corrosion Research
	Chairs:	A. Galtayries, Ecole Nationale Supérieure de Chimie de Paris/F & V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F
WS A-O-8392	08:40	Characterisation of thin films of corrosion products with atomic and molecular spectrometry A. Bengtson, D. Persson, Swerea KIMAB AB, Stockholm/S
WS A-O-8366	09:00	XPS analysis of the adlayer present on stainless steel M.J. Genet, Y. Adriaensen, Université Catholique de Louvain/B; J. Landoulsi, Université de Technologie de Compiègne/F; S. Fleith, Université Catholique de Louvain/B; Y. Lequette, C. Faille, Institut National de la Recherche Agronomique, Lille/F; J. Detry, Faculté des Sciences Agronomiques de Gembloux/B; S. Derclaye, P.G. Rouxhet, Université Catholique de Louvain/B
WS A-O-8341	09:20	XPS study of the mechanisms of corrosion protection of ultra thin alumina films on NiAl alloys in pure water and NaCl solutions I. Bennour, V. Maurice, P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
WS A-K-8285	09:40	KEYNOTE LECTURE Initial steps of dealloying F.U. Renner, Max-Planck-Institut für Eisenforschung, Düsseldorf/D
	10:20	<i>Coffee Break</i>
	Chairs:	F.U. Renner, Max-Planck-Institut für Eisenforschung, Düsseldorf/D & V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F
WS A-O-8278	10:50	Characterization of coating systems by scanning electrochemical microscopy: surface topology, blistering and debonding R.M. Souto, University of La Laguna, Tenerife/E; J.J. Santana, University of Las Palmas de Gran Canaria/E; J. Pérez-Izquierdo, Y. González-García, S. González, University of La Laguna, Tenerife/E
WS A-O-8279	11:10	Microelectrochemical detection of zinc species in corrosion processes Y. González-García, University of La Laguna, Tenerife/E; S. Daniele, University of Venice/I; R.M. Souto, University of La Laguna, Tenerife/E

WS A-O-8436	11:30	Mass transfer controlling reaction in flowing electrolyte-type micro-droplet cell K. Fushimi, S. Yamamoto, H. Habazaki, H. Konno, Hokkaido University, Sapporo/J
WS A-O-8171	11:50	Study of the passive film on duplex stainless steels and its breakdown by Atomic Force Microscopy and Conductive-AFM T. Souier, F. Martin, C. Bataillon, J. Cousty, CEA Saclay, Gif sur Yvettes/F
WS A-O-8339	12:10	ToF-SIMS and AFM study of the corrosion behaviour of Al-low%Cu thin films deposited on Si substrates A. Seyeux, Ecole Nationale Supérieure de Chimie de Paris/F; N. Missert, Sandia National Laboratories, Albuquerque, NM/USA; G.S. Frankel, The Ohio State University, Columbus, OH/USA; L.H. Klein, A. Galtayries, P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
	12:30	<i>Lunchtime</i>
	Chairs:	F.U. Renner, Max-Planck-Institut für Eisenforschung, Düsseldorf/D & A. Galtayries, Ecole Nationale Supérieure de Chimie de Paris/F
WS A-O-8340	14:00	ToF-SIMS and XPS analysis of the role of Zr on oxide adhesion in a thermal barrier system S. Hamadi, Onera, Châtillon/F; V. Maurice, Ecole Nationale Supérieure de Chimie de Paris/F; M. Poulain, M.-P. Bacos, Onera, Châtillon/F; S. Zanna, A. Seyeux, P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
WS A-O-8372	14:20	Long term corrosion of iron in concrete and in atmospheric conditions: a contribution of archaeological analogues to mechanism comprehension E. Burger, A. Demoulin, LPS, Gif sur Yvette/F; S. Perrin, LECA, Gif sur Yvette/F; V. L'Hostis, LECBA, Gif sur Yvette/F; P. Dillman, D. Neff, LPS, Gif sur Yvette/F; A. Millard, LM2S, Gif sur Yvette/F; P. Berger, LPS, Gif sur Yvette/F
WS A-O-7983	14:40 – 15:00	The use of infrared thermography in the corrosion science area M. Jönsson, B. Rendahl, I. Annergren, Swerea KIMAB, Stockholm/S
	15:40	<i>Coffee Break</i>
		Corrosion Mechanisms & Methods (WP 6 & 8)
	Chairs:	V. Vignal, Université de Bourgogne, Dijon/F & R.A. Cottis, University of Manchester/UK
SS 3-K-8241	16:10	KEYNOTE LECTURE Scanning Kelvin probe studies of corrosion mechanisms in organic coated Zn Al Mg galvanised steel H.N. McMurray, G. Williams, Swansea University/UK; A.R. Bennett, Lloyds Register, London/UK
SS 3-O-8160	16:50	Correlations between microstructure and corrosion behaviour of high purity electrodeposited nickel coatings A. Godon, J. Creus, X. Feaugas, E. Conforto, P. Girault, C. Savall, Université de La Rochelle/F
SS 3-O-8167	17:10	Progress in the analysis of critical pitting temperature measurements C. Dussart, INPG, CNRS/SIMAP, Saint Martin d'Hères/F; L. Peguet, A. Gaugain, ArcelorMittal Stainless Europe Research Center, Isbergues/F; B. Baroux, INPG, CNRS/SIMAP, Saint Martin d'Hères/F
	20:00	Conference Dinner
		Joint Session Corrosion and Scale Inhibition (WP 1) & Corrosion in Oil & Gas Production (WP 13)
	Chairs:	G. Schmitt, IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D & T. Chevrot, Total E&P, Paris-La Défense/F
SS 12-O-7734	08:40	A novel laboratory apparatus to determine the film persistency of batch corrosion inhibitors M. Achour, ConocoPhillips, Bartlesville, OK/USA
SS 12-O-7763	09:00	Development of the next generation of environmentally friendly oilfield corrosion inhibitors A. Jenkins, N. Grainger, M-I SWACO, Aberdeen/UK; R. Rodriguez, I. Vaardal, A. Grinrod, M-I SWACO, Stavanger/N
SS 12-O-8376	09:20	Corrosion products in pipelines J. Petru, P. Sajdl, M. Kudrnová, Institute of Chemical Technology, Prague/CZ

SS 12-O-7844	09:40 – 10:00	Corrosion inhibition of carbon steel in formation water of oil wells by some Schiff base non ionic surfactants <u>M.A. Migahed</u> , A.A. Farag, S.M. El-Saed, R. Kamal, Egyptian Petroleum Research Institute, Cairo/ET; H. Abd El-Bary, Alazhar University, Cairo/ET
	10:20	<i>Coffee Break</i>
		Corrosion in Oil & Gas Production (WP 13)
	Chairs:	T. Chevrot, Total E&P, Paris-La Défense/F & J. Kittel, IFP-Lyon, Solaize/F
SS 12-O-7877	10:50	The erosion-corrosion of carbon steels in petroleum pipelines in carbon dioxide (CO₂) containing solution <u>R.O. Rihan</u> , L.M. Al-Hadhrami, King Fahd University of Petroleum & Minerals, Dhahran/SAR
SS 12-O-7955	11:10	Erosion corrosion behaviour of materials used in oil and gas production <u>T. Vogl</u> , J. Haberl, G. Mori, P. Wagner, University of Leoben/A; W. Havlik, OMV Exploration & Production GmbH, Gänserndorf/A; T. Schöberl, University of Leoben/A
SS 12-O-7878	11:30	The galvanic corrosion behavior of welded X52 carbon steel petroleum pipelines in carbon dioxide (CO₂) containing solution R.O. Rihan, King Fahd University of Petroleum & Minerals, Dhahran/SAR
SS 12-O-8006	11:50	Effect of oxygen on aqueous sour corrosion systems <u>A. Palencsar</u> , Y. Song, G. Svenningsen, Institute for Energy Technology, Kjeller/N; T. Hemmingsen, University of Stavanger/N; J. Kvarekval, Institute for Energy Technology, Kjeller/N
SS 12-O-8277	12:10	An updated corrosion prediction model for multiphase CO₂/H₂S systems <u>M. Yunovich</u> , S. Srinivasan, K.M Yap, Honeywell International Inc., Houston, TX/USA
	12:30	<i>Lunchtime</i>
		Joint Session Corrosion of Polymer Materials (WP 19) & Corrosion in Oil & Gas Production (WP 13)
	Chairs:	T. Chevrot, Total E&P, Paris-La Défense/F & R. Morach, Ciba AG, Basel/CH
SS 9-O-8435	14:00	Status of standardization for polymers in the oil and gas industry G. Schmitt, IFINKOR - Institute for Maintenance and Corrosion Protection Technology gGmbH, Iserlohn/D
SS 12-O-7823	14:20	The flexible pipe: a unique product concerned by the combined corrosion mechanisms of metallic and non metallic layers in oil and gas environment C. Taravel-Condat, Technip, Le Trait/F
SS 9-O-8446	14:40	Challenges for polymers in the oil and gas sector R. Martin, MERL Ltd., Hertfordshire/UK
SS 12-K-7950	15:00	KEYNOTE LECTURE The use of polymeric materials within TOTAL upstream <u>D. Melot</u> , F. Bounhoure, I. Bouget, Ph. Gerard, J.M. Rivereau, TOTAL SA, Paris La Défense/F
	15:40	<i>Coffee Break</i>
		Corrosion of Polymer Materials (WP 19)
	Chairs:	R. Morach, Ciba AG, Basel/CH
SS 9-O-8042	16:30	Influence of residual stresses on lifetime prediction for plastic pipes <u>J. Heinemann</u> , H. Haupt, A. Bockenheimer, C. Berger, Technische Universität Darmstadt/D; R. Maria, R. Brüll, Deutsches Kunststoff-Institut, Darmstadt/D
SS 9-O-7965	16:50	Full Notch Creep Test for evaluation of PE-HD materials for container and pipes <u>U. Niebergall</u> , Federal Institute for Materials Research and Testing, Berlin/D; O. Mertlova, Chemopetrol a.s., Litvinov/CZ; E. Nezbedova, Polymer Institute Ltd., Brno/CZ

SS 9-O-7939	17:10	Study about the degradation of polyethylene from gas installations I. Lingvay, C. Groza, P. Budruga, National Institute for Research and Development in Electrical Engineering INC DIE ICPE-CA, Bucharest/RO; D.I. Vaireanu, University Politehnica of Bucharest/RO; C. Lingvay, National Institute for Research and Development in Electrical Engineering INC DIE ICPE-CA, Bucharest/RO
	20:00	Conference Dinner
		Nuclear Corrosion (WP 4)
	Chairs:	A. Molander, Studsvik Nuclear AB, Nyköping/S & D. Gomez-Briceño, CIEMAT-ITN, Madrid/E
SS 11-O-8353	08:40	Corrosion of stainless steel under radiolysis in PWR simulating conditions B. Muzeau, Laboratoire des Solides Irradiés CEA/DSM/IRAMIS/LSI - UMR 7642, Palaiseau/F; S. Perrin, Commissariat à l'Energie Atomique CEA/DEN/DPC/SCCME/ LECA, Saclay/F; C. Corbel, Laboratoire des Solides Irradiés CEA/DSM/IRAMIS/LSI - UMR 7642, Palaiseau/F; D. Simon, CNRS-CEMHTI/Haute Température UPR 3079, Orléans/F; D. Ferron, Commissariat à l'Energie Atomique CEA/DEN/DPC/SCCME, Saclay/F
SS 11-O-8199	09:00	Electrochemical characterization of the oxide layer on nickel-base alloys in simulated PWR primary water C. F.C. Neves, CDTN/CNEN, Belo Horizonte, MG/BR; R.-W. Bosch, S. Gavrilov, SCK.CEN, Mol/B
SS 11-O-7732	09:20	Strain localization effect on oxidation and PWSCC susceptibility of Ni-based alloys T. Couvant, L. Legras, N. Huin, EDF R&D, Moret-sur-Loing/F; G. Ilevbare, EPRI, Palo Alto, CA/USA
SS 11-O-7887	09:40	Contribution to a model for stress corrosion cracking of alloy 600 in PWR primary water P. Laghoutaris, C. Guerre, J. Chêne, CEA, Saclay/F; C. Duhamel, R. Molins, MINES ParisTech, Evry/F
SS 11-O-8127	10:00	Photoelectrochemical characterisation of oxide scales grown on Ni-base alloy in primary water of PWR A. Loucif, University of Grenoble, Saint Martin d'Hères/F; O. Calonne, AREVA, Le Creusot/F; L. Fournier, AREVA, Paris/F; J.-P. Petit, A. Galerie, Y. Wouters, University of Grenoble, Saint Martin d'Hères/F
	10:20	<i>Coffee Break</i>
SS 11-O-8255	10:50	Stress-diffusion coupling in UO₂ V. Optasanu, N. Creton, L. Raceanu, T. Montesin, Université de Bourgogne, Dijon/F; L. Desgranges, CEA, Cadarache/F
SS 11-O-8302	11:10	High temperature corrosion behaviour of Zr-2.5% Nb pressure tubes A. Nimishakavi, J.A Szpunar, McGill University, Montreal/CDN
SS 11-O-8330	11:30	On the relationship between corrosion kinetics and microstructure of zircaloy-4 A. Ly, EDF R&D, Moret sur Loing and Grenoble INP, Saint Martin d'Hères/F; A. Ambard, EDF R&D, Moret sur Loing/F; P. Frankel, M. Preuss, University of Manchester/UK; Y. Bréchet, Grenoble INP, Saint Martin d'Hères/F
SS 11-O-8222	11:50	Impedance spectroscopy of zirconium alloys J. Macák, Institute of Chemical Technology, Prague/CZ; R. Novotný, Joint Research Centre, Petten/NL; P. Sajdl, Institute of Chemical Technology, Prague/CZ; V. Vrtílková, UJP, Prague/CZ
SS 11-O-8191	12:10	Understanding of hydriding mechanisms of Zirconium alloys during corrosion in PWR conditions C. Bisor-Melloul, M. Tupin, Ph. Bossis, Commissariat à l'Energie Atomique, Gif Sur Yvette/F; J. Chêne, Centre National de la Recherche Scientifique / Commissariat à l'Energie Atomique, Gif Sur Yvette/F; F. Jomard, Centre National de la Recherche Scientifique, Meudon/F; P. Berger, Centre National de la Recherche Scientifique / Commissariat à l'Energie Atomique, Gif Sur Yvette/F
	12:30	<i>Lunchtime</i>
	Chairs:	T. Couvant, EDF R&D, Moret-sur-Loing/F & A. Legat, Slovenian National Building and Civil Engineering Institute, Ljubljana/SLO
SS 11-O-7999	14:00	Segregation of Sn in Zr alloy and its surface oxides P. Sajdl, Institute of Chemical Technology, Prague/CZ; V. Vrtílková, UJP Praha, Prague/CZ; M. Kudrnova, J. Petru, Institute of Chemical Technology, Prague/CZ
SS 11-O-8078	14:20	Investigation and evaluation of erosion-corrosion status of steam-water systems at Paks Nuclear Power Plant secondary side J. Schunk, T. Pintér, G. Patek, I.B. Varjú, Á. Doma, A. Kovács, Paks Nuclear Power Plant Ltd./H

SS 11-O-8234	14:40	Materials integrity analysis for application of POSCO developed stainless steel to Korean nuclear power plants <u>C. Hyun-Young</u> , P. Heung-Bae, Korea Power Engineering Company Inc., Yongin-si/ROK; K. Soon-Tae, Yonsei University/ROK; K. Young-Sik, Andong National University/ROK; A. Sang-Gon, K. Gwang-Tae, POSCO/ROK
SS 11-O-8260	15:00	Corrosion issues in cooling water circuits of nuclear power plants <u>F. Chanel</u> , D. Déforge, EDF, Saint-Denis/F
SS 11-O-7841	15:20	Effect of iron oxide glass content on high temperature metal corrosion for nuclear waste glass melter <u>I. Hugon</u> , P. Gruber, O. Pinet, Commissariat à l'Energie Atomique, Marcoule, Bagnols sur Cèze/F
	15:40	<i>Coffee Break</i>
	20:00	Conference Dinner
		<i>Corrosion by Hot Gases and Combustion Products (WP 3)</i>
	Chair:	M. Schütze, DECHEMA e.V., Frankfurt am Main/D
SS 2-K-8102	08:40	KEYNOTE LECTURE The corrosion inhibition in hot gases: past, present and future <u>E. Rocca</u> , Nancy Université, Vandoeuvre Les Nancy/F; M. Moliere, General Electric, Belfort/F; L. Aranda, A. Chiaravalle, P. Steinmetz, Nancy Université, Vandoeuvre Les Nancy/F
SS 2-O-8349	09:20	Depletion sensor for protective high temperature coatings <u>K. Aleksandrov</u> , M. Schütze, DECHEMA e.V., Frankfurt am Main/D
SS 2-O-7889	09:40	Cr addition to a Ni-W based diffusion barrier: effect on interdiffusion between a fourth generation Ni-based superalloy and a (Ni,Pt)Al protective coating <u>E. Cavaletti</u> , S. Naveos, S. Mercier, P. Josso, M.-P. Bacos, ONERA, Chatillon/F; D. Monceau, CIRIMAT, Toulouse/F
SS 2-O-8158	10:00	Influence of H₂O and air on the high temperature behaviour of alumina coatings on technical alloys <u>M. Feigl</u> , M. Nofz, R. Sojref, M. Dressler, W. Schulz, D. Hünert, I. Dörfel, R. Saliwan Neumann, A. Kranzmann, BAM Federal Institution for Materials Research and Testing, Berlin/D
	10:20	<i>Coffee Break</i>
SS 2-O-7840	10:50	Pack cementation and oxidation behaviour of TiAl₃ coatings on pure titanium and modelling studies performed by genetic algorithm <u>T.P. Dudziak</u> , H.G. Ahmad, P.K. Datta, Northumbria University, Newcastle upon Tyne/UK
SS 2-O-8010	11:10	improvement of NaCl induced hot corrosion and oxidation resistance of gamma-TiAl alloys by a new gold based coating <u>S. Mercier</u> , A. Morel, M.-P. Bacos, Onera, Chatillon/F
SS 2-O-7764	11:30	Mitigation of biomass induced corrosion using thermal spray coatings and sealants M.A. Riley, <u>C.-M. Lee</u> , TWI Ltd., Cambridge/UK
SS 2-O-7794	11:50	Corrosion mechanism of boiler tubes lined with refractories U. Hohmann, AZT Risk & Technology GmbH, Munich/D
SS 2-O-8019	12:10	Enhancement of the high-temperature oxidation resistance of Ni-based alloys by means of pre-nitridation treatment <u>B. Gorr</u> , V.B. Trindade, H.-J. Christ, University of Siegen/D
	12:30	<i>Lunchtime</i>
	Chair:	W.J. Quadackers, Forschungszentrum Juelich/D
SS 2-K-8264	14:00	KEYNOTE LECTURE Effect of Pt addition on the oxidation resistance of NiCoCrAlYTa-based TBC systems <u>A. Vande Put</u> , D. Oquab, CIRIMAT, Toulouse/F; A. Raffaitin, TURBOMECA, Bordes/F; D. Monceau, CIRIMAT, Toulouse/F
SS 2-O-7834	14:40	In situ and ex situ investigation of thermal barrier coatings adherence and spallation J. Sniezewski, V. Vidal, Y. Le Maoult, <u>P. Lours</u> , Université de Toulouse, Albi/F

SS 2-O-7985	15:00	Effect of pre-oxidation and surface morphology of Pt-modified aluminide bond coat on the durability of sol-gel TBC <u>V. Menvie Bekale</u> , D. Monceau, D. Oquab, CIRIMAT, ENSIACET, Toulouse/F; F. Ansart, J.P. Bonino, CIRIMAT, Université Paul Sabatier, Toulouse/F
SS 2-O-8069	15:20	Oxidation resistances of nanostructured and conventional YSZ coatings deposited by cyclic voltametric method <u>M. Saremi</u> , N. Narimani, University of Tehran/IR
	15:40	<i>Coffee Break</i>
SS 2-O-7838	16:10	Modification of FeCrAl alloys for obtaining alumina surface layers with high emission coefficient <u>P. Huczowski</u> , S.G. Gopalakrishnan, A. Moreno, Forschungszentrum Juelich/D; R. Iskandar, RWTH Aachen University/D; D. Naumenko, Forschungszentrum Juelich/D; J. Mayer, RWTH Aachen University/D; W.J. Quadackers, Forschungszentrum Juelich/D
SS 2-O-7830	16:30	High temperature oxidation of some 2nd-generation single crystal Ni-base superalloys at 1000 °C in air and moisture <u>G. Obigodi</u> , S. Virtanen, University of Erlangen-Nuremberg/D; B.M. Gleeson, University of Pittsburgh, PA/USA
SS 2-O-8073	16:50	Oxidation behaviour of porous nickel base alloy foams at high temperatures in air <u>S.L. Schulze</u> , W. Bleck, RWTH Aachen University/D; J. Piron Abellan, L. Singheiser, W.J. Quadackers, FZ Jülich/D
SS 2-O-8130	17:10	Influence of silicon on carbon steel scaling during high temperature processes <u>E. Ahtoy</u> , University of Grenoble, Saint Martin d'Hères/F; M. Picard, ArcelorMittal, Metz/F; A. Galerie, University of Grenoble, Saint Martin d'Hères/F; G. Leprince, ArcelorMittal, Metz/F; Y. Wouters, University of Grenoble, Saint Martin d'Hères/F
SS 2-O-8101	17:30	How to improve 9%Cr steel high temperature oxidation resistance - XPS as a tool to characterize a multilayer oxide scale <u>H. N. Evin</u> , O. Heintz, University of Burgundy, Dijon/F; C. Föjer, S. Jakani, A. Dhont, OCAS N.V. ArcelorMittal, Gand/B; S. Chevalier, University of Burgundy, Dijon/F
	20:00	Conference Dinner
		<i>Corrosion in Refinery Industry (WP 15, Joint EFC-NACE session)</i>
	Chair:	F. Ropital, IFP, Solaize/F
SS 13-O-7765	08:40	Application experience of system for corrosion protection of oil storage tank roofs <u>E. Lyublinski</u> , Y. Vaks, Northern Technologies International Corporation, Beachwood, OH/USA; J. Damasceno, Petrobras, Rio de Janeiro/BR; R. Singh, Zerust, Sao Paulo/BR
SS 13-O-8346	09:00	Performance degradation of the heat exchanger tubes exposed to high temperature environment A. Adeleke, Honeywell Process Solutions, Honeywell International, Houston, TX/USA; N. Neeranhan, V. Seereram, Point Lisas Nitrogen Ltd., Trinidad/TT; <u>B. Chambers</u> , Honeywell International, Inc., Houston, TX/USA
SS 13-O-7739	09:20	Corrosion monitoring in the oil refining industry A. Groyzman, ORT Braude College, Karmiel and Oil Refineries Ltd., Haifa/IL
SS 13-O-8235	09:40	Installed ultrasound sensors for improved asset integrity and process control <u>J. Costain</u> , GE, Coventry/UK; J. Cuffe, GE, Lewistown, PA/USA; E. van der Leden, C. Caunter, GE, Coventry/UK
SS 13-O-7780	10:00	Improvement of used materials in sour gas treating plant D. Masouri, <u>M. Askari</u> , Pars Oil & Gas Co., Tehran/IR
	10:20	<i>Coffee Break</i>

	12:30	<i>Lunchtime</i>
		<i>Biomolecules and Biofilms on Surfaces: Impact on the Corrosion Resistance</i>
	Chairs:	B. Tribollet, Université Pierre et Marie Curie, Paris/F & F. Feugeas, INSA de Strasbourg/F
WS B-K-8218	14:00	KEYNOTE LECTURE New routes in anaerobic biocorrosion: role of hydrogenase & <i>Geobacter</i> species M. Mehanna, <u>R. Basseguay</u> , M.-L. Delia, A. Bergel, CNRS - Université de Toulouse/F
WS B-O-7826	14:40	Pre-treatment of model surfaces of biomaterials by fibronectin: adsorption and influence on the behaviour of pre-osteoblasts <u>V. Payet</u> , T. Dini, I. Frateur, A. Galtayries, Ecole Nationale Supérieure de Chimie de Paris/F; P. Vigneron, M.D. Nagel, Université de Technologie de Compiègne/F; P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
WS B-O-7883	15:00	Influence of bacteria on silver dissolution from silver-palladium surfaces W.C. Chiang, Technical University of Denmark, Kgs. Lyngby/DK; <u>L.R. Hilbert</u> , FORCE Technology, Brøndby/DK; C. Schroll, Technical University of Denmark, Kgs. Lyngby/DK; T. Tolker-Nielsen, University of Copenhagen/DK; P. Møller, Technical University of Denmark, Kgs. Lyngby/DK
WS B-O-7972	15:20	Determination of bacterial corrosion of copper by <i>Pseudomonas aeruginosa</i> with EQCM <u>K.C. Emregul</u> , H. Nazir, A.P.F. Tabrizi, N.O. Santez, G. Donmez, Ankara University/TR
	15:40	<i>Coffee Break</i>
	Chairs:	I. Frateur, Ecole Nationale Supérieure de Chimie de Paris/F & L.R. Hilbert, FORCE Technology, Brøndby/DK
WS B-O-7852	16:10	Microbiologically influenced corrosion (MIC) in a simulated ship tank model system <u>A. Heyer</u> , TU Delft/NL; F. D'Souza, G. Ferrari, TNO, Den Helder/NL; J.M.C. Mol, J.H.W. de Wit, TU Delft/NL
WS B-O-8077	16:30	Impact of biofilms on concrete: degradation or protection? <u>S. Roux</u> , N. Bur, INSA de Strasbourg/F; Y. Geraud, IPG, Strasbourg/F; F. Feugeas, INSA de Strasbourg/F
WS B-O-8022	16:50	Studies on the application of microbially produced polymeric substances as protecting layers against microbially influenced corrosion of iron and steel <u>R. Stadler</u> , W. Fürbeth, DECHEMA e.V., Frankfurt am Main/D; M. Grooters, A. Kuklinski, C. Janosch, W. Sand, Biofilm Centre / University of Duisburg-Essen/D
WS B-O-8374	17:10	Plasma-mediated nanosilver-containing coating on stainless steel for the prevention of fungal biofilms: an investigation using XPS and ToF-SIMS <u>S. Zanna</u> , C. Wang, CNRS ENSCP, Paris/F; B. Despax, P. Raynaud, Université Paul Sabatier, Toulouse/F; C. Saulou, M. Mercier-Bonin, INSA, Toulouse/F; A. Seyeux, P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
WS B-O-8357	17:30	Surface modifications to influence biofilm formation on material surfaces <u>L. Benea</u> , Dunarea de Jos University of Galati/RO; B. Tribollet, Université Pierre et Marie Curie, Paris/F; W. Sand, University of Duisburg-Essen, Duisburg/D
	20:00	Conference Dinner
		<i>Cathodic Protection in Seawater - Joint Session Cathodic Protection (WP 16) & Marine Corrosion (WP 9)</i>
	Chairs:	A.-M. Grolleau, DCNS Cherbourg, Cherbourg-Octeville/F & M. Roche, Le Mesnil-le Roi/F
SS 14-O-7934	08:40	Design and optimization of CP systems for marine applications L. Bortels, <u>J. Parlongue</u> , Elsyca NV, Wijgmaal/B
SS 6-O-7836	09:00	The influence of calcareous deposits on hydrogen diffusion in 13Cr supermartensitic stainless steel under cathodic protection <u>A. Smirnova</u> , K. Nisancioglu, R. Johnsen, Norwegian University of Science and Technology, Trondheim/N
SS 6-O-7876	09:20	Cathodic delamination: mechanisms, materials selection and development of a new testing protocol <u>Z. Makama</u> , J.R. Smith, I.B. Beech, University of Portsmouth/UK; M. Webb, I. Doble, D. Nicolson, PDM Neptec Ltd., Alton/UK; S.A. Campbell, University of Portsmouth/UK
SS 6-O-7892	09:40	Degradation of rubber/metal systems in seawater <u>M. Nakache</u> , A. Margailan, L. Belec, E. Aragon, Université de Toulon et du Var, La Valette du Var/F; H. Thomas, B. Grangier, G. Roux, Thales Underwater System, Sophia Antipolis/F

SS 6-O-7909	10:00	Corrosion behaviour of nickel based alloys for coating materials on anodic structure <u>N.A. Fadil</u> , K. Noda, Shibaura Institute of Technology, Tokyo/J
	10:20	<i>Coffee Break</i>
		Cathodic Protection (WP 16)
	Chairs:	M. Roche, Le Mesnil-le Roi/F
SS 6-K-8273	10:50	KEYNOTE LECTURE Corrosion protection of LNG tank foundations and base slabs using impressed current cathodic protection <u>M.B. Surkein</u> , J.P. LaFontaine, ExxonMobil Development Company, Houston, TX/USA; H. Sheikh, Jazira Technical System, Dubai/UAE
SS 6-O-7946	11:30	Cathodic protection of mounded tanks - a particular case of complex structure <u>O. Fumei</u> , L. Di Biase, R. Cigna, Isproma s.r.l., Roma/I
SS 6-O-8276	11:50	Earthing, grounding, bonding, cathodic protection, personal and goods safety & lightning <u>D. Soleil</u> , EMC SYSTEM, Senas/F; <u>P. Le Ho</u> , CCTA, Toulouse/F; <u>G. Zeigler</u> , SPGS, Mansfield, OH/USA
SS 6-O-8156	12:10	Modelling impressed current cathodic protection of storage tanks <u>A. Peratta</u> , J.M.W. Baynham, R.A. Adey, CM BEASY Ltd., Southampton/UK
	12:30	<i>Lunchtime</i>
SS 6-O-8137	14:00	Cathodic protection criteria in the presence of AC interference <u>L. Lazzari</u> , M. Ormellese, A. Brenna, Politecnico di Milano/I; L. Trinca, Istituto Sperimentale RFI, Rome/I
SS 6-O-8256	14:20	Electrochemical studies on the AC corrosion mechanism at 50 Hz and new criteria to assess the AC corrosion risk <u>I. Ibrahim</u> , University UPMC, Paris/F; D. Sicsic, M. Meyer, D. Caron, GDF-SUEZ, Saint Denis La Plaine/F; S. Fontaine, GRTGaz, Compiègne/F; H. Takenouti, B. Tribollet, University UPMC, Paris/F
SS 6-O-7935	14:40	HVAC interference on pipeline networks - modelling and optimization of mitigation techniques L. Bortels, <u>J. Parlongue</u> , Elsyca NV, Wijgmaal/B
SS 6-O-7936	15:00	Protection of underground pipelines against alternative stray currents <u>I. Lingvay</u> , National Institute for Research and Development in Electrical Engineering INCDIE ICPE-CA, Bucharest/RO; D.I. Vaireanu, University Politehnica of Bucharest/RO; C. Lingvay, National Institute for Research and Development in Electrical Engineering INCDIE ICPE-CA, Bucharest/RO; I. Csuzi, TRIODA Ltd., Oradea/RO
SS 6-O-8289	15:20	Corrosion products of cathodically protected specimens of steel pipes are different from those of their reference and further dependent on the embedding material <u>J. Wendorfsky</u> , A. Schindel, Austrian Research Centers GmbH - ARC, Seibersdorf/A
	15:40	<i>Coffee Break</i>
SS 6-K-8328	16:30	KEYNOTE LECTURE Use and limitations of coupons for CP monitoring purposes: a CeoCor working group document <u>L.V. Nielsen</u> , MetriCorr, Glostrup/DK; L. Di Biase, Isproma, Milan/I; P. Cohn, Energinet.dk, Ballerup/DK
SS 6-O-8294	16:50	Field evaluation of cathodic protection remote monitoring systems at oil facilities <u>A.A. Bukhamseen</u> , Saudi Aramco, Dharhan/SAR
SS 6-O-8059	17:10	Coatings used in conjunction with cathodic protection - shielding vs non-shielding pipeline coatings R. Norsworthy, Polyguard Products, Inc., Lancaster, TX/USA
SS 6-O-8394	17:30	Thermal spraying of AlZnIn alloys using solid wires <u>C. Wheatley</u> , CJ Wiretech Ltd., Llanelli/UK; A. Hardman, LSM Company Ltd., Rotherham/UK
	20:00	Conference Dinner

		<i>Workshop on Bio-Tribocorrosion</i>
	Chairs:	J.P. Celis, Katholieke Universiteit Leuven/B & ; P. Ponthiaux, Ecole Centrale Paris/F
WS E-K-8445	08:40	KEYNOTE LECTURE Bioactive materials: a solution to control the host response and the biointegration of implants? V. Migonney, Université Paris 13, Paris/F
WS E-O-8378	09:20	Adsorption of biomolecules in microchannel walls using a contactless admittance technique J. Gamby, B. Tribollet, CRNS - Université de Paris, Ivry/F
WS E-O-7881	09:40	Influence of proteins on the repassivation kinetics of metallic biomaterials under sliding contacts A. De Frutos, M.A. Arenas, A. Conde, J. De Damborenea, Consejo Superior de Investigaciones Científicas (CSIC), Madrid/E
WS E-O-7987	10:00	Effect of different thermal treatments on the tribocorrosion behaviour of a HC CoCrMo biomedical alloy L. Casabán Julián, A. Igual Muñoz, Universidad Politécnica de Valencia/E
	10:20	<i>Coffee Break</i>
	Chairs:	L.A. Rocha, University of Minho, Guimarães/P & V. Migonney, Université Paris 13, Paris/F
WS E-O-7872	10:50	Effect of oral biofilms on the biotribocorrosion of titanium J.C.M. Souza, E. Ariza, University of Minho, Guimarães/P; M.C.R. Henriques, D.R. Oliveira, University of Minho, Braga/P; W. Teughels, Katholieke Universiteit Leuven/B; L.A. Rocha, University of Minho, Guimarães/P; J.P. Celis, Katholieke Universiteit Leuven/B
WS E-O-8190	11:10	Influence of the processing conditions on tribocorrosion mechanisms of anodic oxide layers of pure titanium for dental implants A.C. Alves, University of Minho, Guimarães/P; P. Ponthiaux, F. Wenger, Ecole Centrale Paris/F; L.A. Rocha, University of Minho, Guimarães/P
WS E-O-8358	11:30	Dispersed bioceramics in cobalt - a way to improve the properties of implants L. Benea, Dunarea de Jos University of Galati/RO; P. Ponthiaux, Ecole Centrale Paris/F; F.S. Sorcaru, Dunarea de Jos University of Galati/RO; F. Wenger, Ecole Centrale Paris/F; J.-P. Celis, Katholieke Universiteit Leuven/B
WS E-O-7811	11:50	Highlighting the role of surface properties of titanium on protein adsorption M. Lecomte, University Paris XIII and Ecole Centrale Paris, Chatenay-Malabry/F; V. Migonney, University Paris XIII, Villetaneuse/F; J.-P. Celis, Katholieke Universiteit Leuven/B; F. Wenger, P. Ponthiaux, Ecole Centrale Paris, Chatenay-Malabry/F
	12:10	
	12:30	<i>Lunchtime</i>
	Chairs:	J.P. Celis, Katholieke Universiteit Leuven/B & ; P. Ponthiaux, Ecole Centrale Paris/F
WS E-K-8055	14:00	KEYNOTE LECTURE Electrochemical techniques in tribo-corrosion - from concepts to applicability M. Keddad, CNRS, Ivry/F
WS E-O-8035	14:40	Erosion-corrosion mechanisms causing degradation of materials in phosphoric medium A. Magnee, Université de Liège/B; J. Novello, V. Tusset, CRM, Liege/B; J. Wlodarczyk, Prayon S.A., Liege/B
WS E-O-8400	15:00	A map and a pipe: a new approach to characterizing erosion-corrosion regimes in three dimensions using CFD modelling M.M. Stack, S.M. Abdelrahman, P.D. Jana, University of Strathclyde, Glasgow/UK
WS E-O-7886	15:20	Protocol for testing the tribocorrosion behavior of passivating materials in sliding contacts P. Ponthiaux, F. Wenger, Ecole Centrale Paris, Châtenay-Malabry/F; N. Diomidis, Katholieke Universiteit Leuven/B; D. Drees, Falex Tribology N.V., Rotselaar/B; J.-P. Celis, Katholieke Universiteit Leuven/B
	15:40	<i>Coffee Break</i>
	Chairs:	M.M. Stack, University of Strathclyde, Glasgow/UK & S. Mischler, Ecole Polytechnique Fédérale de Lausanne/CH
WS E-O-8437	16:10	Phase identification of copper oxide produced in tribo-oxidative condition by an electrochemical approach N. Mary, B. Normand, R. Diemiaszonek, Institut National des Sciences Appliquées - INSA, Villeurbanne/F

WS E-O-8438	16:30	Role of surface engineering in improving the fretting corrosion behaviour of titanium and its alloys: prospects and challenges S. Kumar, B. Sivakumar, <u>T.S.N. Sankara Narayanan</u> , CSIR Complex, Chennai/IND; S. Ganesh Sundara Raman, S.K. Seshadri, Indian Institute of Technology Madras, Chennai/IND
	16:50	WP 18 Round Table
	17:10	ENIWEP
	17:30	COST 533
	20:00	Conference Dinner
Thursday, 10 September 2009		
<i>Coatings (WP 14)</i>		
Chairs:	F. Deflorian, Università di Trento/I & J.M.C. Mol, Delft University of Technology/NL	
SS 5-K-7831	09:00	KEYNOTE LECTURE The electrodeposition of zinc alloys from ionic liquid electrolytes P.A. Cantwell, P.P. Chung, H. Jiang, <u>G.D. Wilcox</u> , G.W. Critchlow, Loughborough University/UK
SS 5-O-8268	09:40	Understanding corrosion via corrosion product characterization: role of Mg alloying in Zn-Mg coating on steel <u>P. Volovitch</u> , Ecole Nationale Supérieure de Chimie de Paris/F; C. Allely, ArcelorMittal, Maizières-lès-Metz/F; K. Ogle, Ecole Nationale Supérieure de Chimie de Paris/F
SS 5-O-8416	10:00	Electrochemical and surface analysis of the corrosion protection by ultra-thin metal oxide coatings deposited by atomic layer deposition <u>J. Swiatowska</u> , V. Maurice, Centre National de la Recherche Scientifique - Ecole Nationale Supérieure de Chimie de Paris/F; E. Harkonen, M. Ritala, University of Helsinki/FIN; P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
	10:20	<i>Coffee Break</i>
SS 5-O-8390	10:50	Corrosion protection of magnesium alloys (WE43) by Zr and Nb oxide layer coatings <u>H. Ardelean</u> , S. Zanna, A. Seyeux, P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F
SS 5-O-8145	11:10	Characterisation of anodic coatings on titanium via colour analysis M.V. Diamanti, B. Del Curto, <u>M. Pedferri</u> , P. Pedferri, Politecnico di Milano/I
SS 5-O-8181	11:30	The use of ultrasounds during electrodeposition of Ni/Al₂O₃ nano-composite coatings from additive-free bath <u>C. Zanella</u> , M. Lekka, University of Trento/I; A. Lanzutti, University of Udine/I; P.L. Bonora, University of Trento/I
SS 5-O-7820	11:50	Electrodeposition of Ni/Al₂O₃ nanocomposite coatings under ultrasonic field <u>E. García-Lecina</u> , I. García-Urrutia, M. Díaz-Fuentes, J.A. Díez, Fundación CIDETEC, San Sebastián/E; J. Morgiel, P. Indika, Polish Academy of Sciences, Krakow/PL
SS 5-O-8325	12:10	Electrodeposition of black chromium from ionic liquid-Cr(III) solution <u>S. Eugénio</u> , Technical University of Lisbon/P; C.M. Rangel, Unidade de Electroquímica de Materiais, Lisboa/P; R. Vilar, Technical University of Lisbon/P
	12:30	<i>Lunchtime</i>
SS 5-O-7711	14:00	Electrodeposited nickel composite coating containing nano-particulates Cr₂O₃ by conventional electroplating technique <u>Z. Abdel Hamid</u> , S. El-Sheikh, Central Metallurgical Research & Development Institute (CMRDI), Helwan, Cairo/ET
SS 5-O-7942	14:20	Influence of wear on the corrosion resistance of electroless nickel-boron coated aluminium alloys <u>F. Delaunois</u> , A.F. Kanta, V. Vitry, University of Mons/B

		Corrosion Mechanisms & Methods (WP 6 & 8)
	Chairs:	P. Marcus, Ecole Nationale Supérieure de Chimie de Paris/F & R.A. Cottis, University of Manchester/UK
SS 3-O-7848	09:20	Electrochemical investigation of the corrosion of aluminum materials in industrial cleaning solutions S. Koehler, U. Rammelt, G. Reinhard, EXCOR Korrosionsforschung GmbH, Dresden/D
SS 3-K-7720	09:40	KEYNOTE LECTURE Kinetic stability diagrams and the prediction of passivity D.D. Macdonald, Pennsylvania State University, University Park, PA/USA
		Cathodic Protection of Steel in Concrete by Galvanic Anodes
	Chairs:	G. Taché, Ginger CEBTP, Elancourt/F & V. L'Hostis, LECBA, Gif sur Yvette/F
WS H-K-8442	09:00	KEYNOTE LECTURE Galvanic anodes for reinforced concrete repair: french experience V. Bouteiller, Laboratoire Central des Ponts et Chaussées, Paris/F; G. Taché, CEFRACOR, Paris/F
WS H-O-8254	09:40	The response of galvanic protection current to environmental changes S. Holmes, Loughborough University/UK
WS H-O-7862	10:00	Application of thermal sprayed zinc anode for CP of a multi-storey-car-park T. Eichler, B. Isecke, Federal Institute for Materials Research and Testing (BAM Berlin)/D; H.-H. Klein, Engelbach+Partner Ingenieuresellschaft mbH, Frankfurt am Main/D; F. Prenger, GRILLO-WERKE AG, Duisburg/D
	10:20	<i>Coffee Break</i>
WS H-O-8283	10:50	Presentation of a repair of reinforced concrete structure and treatment of corrosion with cathodic protection hybrid discrete sacrificial anode O. Colloud, LMdB, Cons St. Colombe/F; G. Taché, Ginger CEBTP, Elancourt/F; R. Guérin, RGD BOB, Oullins/F
WS H-O-8267	11:10	Modifications of corrosion products during galvanic treatment of reinforced carbonated concrete Y.Y. Tong, LCPC, Paris/F; M.C. Bernard, LISE-UPR15, Paris/F; V. Bouteiller, LCPC, Paris/F; S. Joiret, LISE-UPR15, Paris/F; E. Marie-Victoire, LRMH, Paris/F
WS H-O-8319	11:30	Electrochemical realkalisation of carbonated reinforced concrete using impressed or galvanic current - 2.5 years durability Y.Y. Tong, V. Bouteiller, LCPC, Paris/F; E. Marie-Victoire, LRMH, Champs sur Marne/F; S. Joiret, LISE/UPMC, Paris/F
	11:50 – 12:30	Round Table
		Nuclear Corrosion (WP 4)
	Chairs:	S. Ritter, Paul Scherrer Institute, Villigen PSI/CH & S. Lyon, The University of Manchester/UK
SS 11-O-7722	09:00	The electrochemistry of carbon steel in simulated concrete pore water D.D. Macdonald, O. Azizi, Pennsylvania State University, University Park, PA/USA
SS 11-O-8284	09:20	Long-term corrosion behaviour of low-/medium-level waste packages M. Jendras, F.-W. Bach, S. Behrens, C. Birr, T. Hassel, Leibniz Universität Hannover, Garbsen/D
SS 11-O-8180	09:40	First multi scale investigation of an iron corrosion products/glass interface on an archaeological analogue A. Michelin, Commissariat à l'Energie Atomique de Marcoule, Bagnols-sur-Cèze/F; L. Robinet, Synchrotron SOLEIL, Gif-sur-Yvette/F; D. Neff, Commissariat à l'Energie Atomique de Saclay, Gif-sur-Yvette/F; S. Gin, Commissariat à l'Energie Atomique de Marcoule, Gif-sur-Yvette/F; P. Dillmann, Commissariat à l'Energie Atomique de Marcoule, Bagnols-sur-Cèze/F
SS 11-O-7903	10:00	Anaerobic corrosion of carbon steel under unsaturated conditions in a nuclear waste deep geological repository G. Kwong, Nuclear Waste Management Organization, Toronto/CDN; S. Wang, R.C. Newman, University of Toronto/CDN
	10:20	<i>Coffee Break</i>

SS 11-O-8345	10:50	Corrosion of iron steel under sulphate reducing conditions: application to deep geological disposal of high-level radioactive waste H. El Hajj, A. Abdelouas, B. Grambow, Ecole des Mines de Nantes/F
SS 11-K-7904	11:10	KEYNOTE LECTURE Understanding of the corrosion processes of a copper used fuel container G. Kwong, Nuclear Waste Management Organization, Toronto/CDN
SS 11-O-8031	11:50	Atmospheric-induced chloride stress corrosion cracking in types 304L and 316L stainless steels A. Cook, D. Phan, A. Sherry, S. Lyon, The University of Manchester/UK
SS 11-O-8041	12:10	An approach to study the corrosion behaviour of stainless steel containers for packaging of intermediate level radioactive waste during atmospheric storage C.G. Padovani, P. Wood, Nuclear Decommissioning Authority, Harwell/UK; N.R. Smart, R.J. Winsley, Serco Technical and Assurance Services, Culham/UK; A. Charles, O. Albores-Silva, University of Newcastle Upon Tyne/UK; D. Krouse, Industrial Research Ltd., Lower Hutt/NZ
	12:30	<i>Lunchtime</i>
	Chair:	D. Féron, CEA, Gif-sur-Yvette/F
SS 11-O-5322	14:00	Effect of scratch on crack initiation of alloy 690TT in high temperature high pressure water J. Wang, E. Han, Chinese Academy of Sciences, Shenyang, Liaoning/PRC
SS 11-O-5323	14:20	Analysis of surface film of alloy 690TT with various surface finish in high temperature high pressure water J. Wang, Z. Zhang, E. Han, W. Ke, Chinese Academy of Sciences, Shenyang, Liaoning/PRC
		Corrosion by Hot Gases and Combustion Products (WP 3)
	Chair:	D. Monceau, CIRIMAT, Toulouse/F
SS 2-K-7779	09:00	KEYNOTE LECTURE Scale formation on ferritic and austenitic steels in high CO₂/H₂O containing gases simulating oxyfuel environments J. Piron Abellan, T. Olszewski, L. Singheiser, W.J. Quadackers, Forschungszentrum Jülich GmbH/D
SS 2-O-7979	09:40	Short-term corrosion testing in a burner rig with oxyfuel and conventional firing M. Montgomery, Technical University of Denmark, Kgs. Lyngby/DK; A. Hjörnhede, Vattenfall Power Consultant AB, Goteborg/S; A. Gerhardt, University of Stuttgart/D
SS 2-O-7805	10:00	Simultaneous oxidation and carburization under oxyfuel conditions D. Hünert, W. Schulz, A. Kranzmann, Federal Institute for Materials Research and Testing, Berlin/D
	10:20	<i>Coffee Break</i>
SS 2-O-8225	10:50	Laboratory investigations of the high temperature corrosion of various materials in simulated oxyfuel and conventional coal firing N. Folkesson, Chalmers University of Technology, Gothenburg/S; A. Hjörnhede, Vattenfall Power Consultant AB, Gothenburg/S; J. Pettersson, M. Montgomery, M. Bjurman, J.-E. Svensson, Chalmers University of Technology, Gothenburg/S
SS 2-O-7767	11:10	Laboratory corrosion test results simulating fireside corrosion of austenitic superheater and reheater tube materials in advanced USC boilers N. Otsuka, Sumitomo Metal Industries, Ltd., Amagasaki/J
SS 2-O-8186	11:30	Contribution to the analysis of the corrosion process of commercial stainless steels and newly developed laboratory alloys under simulated incineration conditions M. Schmitt, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf/D; M. Spiegel, Salzgitter Mannesmann Forschung GmbH, Duisburg/D
SS 2-O-8192	11:50	Influence of Cr content on the oxidation behaviour of boiler steels - experimental results and simulation R. Naraparaju, V.B. Trindade, H.-J. Christ, U. Krupp, University of Siegen/D
SS 2-O-8183	12:10	Practical approach on optimizing the co-firing conditions at the coal fired power plant of EPZ H. Zhan, M. de Jong, KEMA, Arnhem/NL; S. Goole, P. Versluis, N.V. EPZ, Borssele/NL
	12:30	<i>Lunchtime</i>

	Chair:	M. Schütze, DECHEMA e.V., Frankfurt am Main/D
SS 2-O-8230	14:40	Superheater fireside corrosion mechanisms in MSWI plants: lab-scale study and solubility limit of iron protective oxides in NaCl-KCl-Na₂SO₄-K₂SO₄ molten salts J. Diop, Veolia&Environment, Limay and Université Nancy 1, Vandoeuvre les Nancy/F; J.M. Brossard, X. Chausserie, F. Nicol, C. Rapin, Veolia&Environment, Limay/F; N. David, M. Vilasi, Université Nancy 1, Vandoeuvre les Nancy/F
SS 2-O-8287	15:00	Online corrosion monitoring in Waste to Energy (WTE) and biomass incineration plants - application of a corrosion probe allows quantifying the gases' corrosive effects B. Waldmann, D. Schrupp-Heidelberger, B. Stöcker, Cormoran GmbH, Augsburg/D; F. Haider, S. Horn, S. Maisch, Universität Augsburg/D; R. Warnecke, V. Müller, Gemeinschaftskraftwerk Schweinfurt/D
SS 2-O-8139	15:20	Metal dusting resistance of high temperature steels and nickel-base alloys for structural components of heat treatment furnaces with carbonaceous atmospheres M. Kleingries, H. Ackermann, H. Köhne, K. Lucka, Oel-Waerme-Institut gGmbH - OWI, Herzogenrath/D; T. Hoja, A. Mehner, F. Hoffmann, H.-W. Zoch, Stiftung Institut für Werkstofftechnik - IWT, Bremen/D
SS 2-O-8092	15:40	Several microstructure phenomena occurring in cast chromium-rich carbides-strengthened refractory alloys exposed to oxidation at high temperature P. Berthod, Nancy-Université, Vandoeuvre-lès-Nancy/F
		Microbial Corrosion (WP 10)
	Chairs:	R. Gubner, Curtin University of Technology, Perth/AUS & P. Cristiani, Cesi Ricerca, Milan/I
SS 4-K-8411	09:00	KEYNOTE LECTURE Predicting SRB MIC in pipelines S. Maxwell, Intertek Commercial Microbiology Ltd., Aberdeen/UK
SS 4-O-7869	09:40	Impact of SRB induced microbial corrosion on engineering materials S. Lata, C. Sharma, A. Singh, I.I.T.-Roorkee, Saharanpur/IND
SS 4-O-8220	10:00	Biocorrosion of coatings by freshwater sponges C. Messal, MICOR Gesellschaft für mikrobielle Prozesse und Materialkunde mbH, Groß Lüsewitz/D
	10:20	<i>Coffee Break</i>
	Chairs:	R. Basseguy, CNRS - Université de Toulouse/F & R. Stadler, DECHEMA e.V., Frankfurt am Main/D
SS 4-O-8088	10:50	Corrosion in continuous biodegradation of volatile organic compounds S. Kus, Honeywell, Warsaw/PL; G. Bartelmus, Polish Academy of Science, Gliwice/PL; R.D. Kane, iCorrosion LLC, Houston, TX/USA; A. Mehdawe, Honeywell, Abu-Dhabi/UAE; D. Kasperczyk, Polish Academy of Science, Gliwice/PL
SS 4-O-7899	11:10	Monitoring of the negative influence of biofilm and the positive effect of chlorination on surface passivation of CuNi70/30 condenser tubes P. Cristiani, Cesi Ricerca, Milan/I
SS 4-O-7969	11:30	Fe(II-III) hydroxysulphate green rust: a source of sulphate for SRB M. Langumier, R. Sabot, S. Sable, M. Jeannin, R. Obame-Ndong, I. Lanneluc, P. Refait, University La Rochelle/F
SS 4-O-8047	11:50	Influence of imidazoline as a corrosion inhibitor of a carbon steel 1018 and its effect over the <i>Desulfovibrio vulgaris</i> C. Gonzalez, G. Galicia, F. Rodriguez, Universidad Nacional Autonoma de Mexico, Distrito Federal/MEX
SS 4-O-7760	12:10	Some imidazoline derivatives for microbial corrosion inhibitors I. Aiad, A. Hafiz, M.Y. El-Awady, Egyptian Petroleum Research Institute, Cairo/ET
		Corrosion & Corrosion Protection of Drinking Water Systems (WP 20)
	Chair:	J.W. Erning, Bundesanstalt für Materialforschung und -prüfung, Berlin/D
SS 17-O-8143	09:00	Unexpected corrosion of stainless steel in low chloride waters - microbial aspects L.R. Hilbert, FORCE Technology, Brøndby/DK; L. Carpén, VTT, Espoo/FIN; P. Møller, Technical University of Denmark, Kgs. Lyngby/DK; F. Fontenay, T. Mathiesen, FORCE Technology, Brøndby/DK

SS 17-O-7994	09:20	Effect of residual chlorine on the corrosion of copper pipes processes in household drinking water systems <u>I. Vargas</u> , M. Mueller, P. Pastén, G. Pizarro, Pontificia Universidad Católica de Chile, Santiago/RCH
SS 17-O-7803	09:40	The effect of water chlorination on the corrosion behaviour of type 304L and 316L stainless steels <u>K. Vepulanont</u> , R.G.J. Edyvean, University of Sheffield/UK; C. Powell, Nickel Institute, Birmingham/UK
SS 17-O-7966	10:00	Electrochemical investigations at alloy 1.4521 for the use as pipe material in drinking water <u>R. Feser</u> , R. Buschmann, W. Siedlerek, University of Applied Sciences, Iserlohn/D
	10:20	<i>Coffee Break</i>
SS 17-O-8351	10:50	Nickel and lead release to drinking water - Danish and European results <u>F. Fontenay</u> , A. Andersen, FORCE Technology, Brøndby/DK; W. Werner, TZW, Karlsruhe/D; W. Erning, BAM, Berlin/D
SS 17-O-7828	11:10	Correlation between fields takings and external corrosion speed laws of buried cast iron <u>Y. Goubeyre</u> , L. Ngo, S. Oberti, Anjou-Recherche, Maisons-Laffitte/F
SS 17-O-8005	11:30	EIS studies for corrosion mechanisms of cast iron in water and sand M. Sancy, E. Sutter, University Pierre et Marie Curie, Paris/F; Y. Goubeyre, Veolia, Paris/F; <u>B. Tribollet</u> , University Pierre et Marie Curie, Paris/F
SS 17-O-7947	11:50	Galvanic corrosion behavior of 3003 Aluminum alloy in model tap water <u>M. Sakairi</u> , A. Kaneko, T. Kikuchi, Hokkaido University, Sapporo/J; Y. Seki, D. Nagasawa, Nippon light metal co. Ltd., Shizuoka/J
		Marine Corrosion (WP 9)
	Chairs:	U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S & C. Powell, Consultant to the Nickel Institute, Ludlow/UK
SS 14-O-7709	09:00	Rehabilitation of the Crozet island wharf by HDPE protective outer layer French southern and Antartic lands <u>H. Barreda</u> , CETMEF, Aix en Provence/F; L. Besnard, TAAF, Saint Pierre de La Réunion/F; Ph. Delorme, CG Ariège, Foix/F; H. Gouge, DDE des Bouches du Rhône, Aix en Provence/F
SS 14-O-8344	09:20	Marine pollution: impacts on the marine environment of Mahajanga <u>E. Rasoanandrasana</u> , Y. Mong, Université de Mahajanga/RM
SS 14-O-5321	09:40	Environmental behaviour of naval aluminium alloys in sea water ports <u>A. Eliezer</u> , SCE - Sami Shamoon College of Engineering, Beer-Sheva/IL; A. Garcia, B. Valdez, M. Shorr, Universidad Autonoma de Baja California/MEX
SS 14-O-8236	10:00	CuNi alloys for splash zone protection of hot risers G. Schmitt, IFINKOR-Institute for Maintenance and Corrosion Protection Technology, Iserlohn/D; R. Feser, South-Westfalia University of Applied Sciences, Iserlohn/D; C. Kapsalis, K. Steinkamp, <u>B. Sagebiel</u> , KME Germany AG & Co KG, Osnabrück/D
	10:20	<i>Coffee Break</i>
	Chairs:	U. Kivisäkk, AB Sandvik Materials Technology, Sandviken/S & J.-P. Pautasso, DGA/DET, Bagneux/F
SS 14-O-8309	10:50	Prevent protective films on copper nickel alloys from cracking at dry storage <u>M. Langer</u> , S. Friedrich, Institute for Corrosion Protection Dresden GmbH/D
SS 14-O-8251	11:10	Performance of CuNi alloys in chlorinated artificial seawater - effect of surface conditioning in sulfide containing seawater <u>G. Schmitt</u> , IFINKOR - Institute for Maintenance and Corrosion Protection Technology gmbH, Iserlohn/D; R. Feser, South-Westfalia University of Applied Sciences, Iserlohn/D; C. Kasalis, K. Steinkamp, B. Sagebiel, KME Germany AG & Co KG, Osnabrück/D
SS 14-O-7799	11:30	Corrosion properties of an highly alloyed stainless steel and a based nickel alloy in chlorinated sea water <u>V. Debout</u> , A.-M. Grolleau, H. Le Guyader, DCNS NA Cherbourg, Cherbourg Octeville/F; J.-P. Pautasso, DGA/DET, Bagneux/F; J. Blanc, DGA/CEP/MC/TCM, Arcueil/F
SS 14-O-7911	11:50	Development of a new biofilm monitoring electrochemical sensor <u>G. Pavanello</u> , M. Faimali, ISMAR-CNR, Genova/I; A. Benedetti, IENI-CNR, Milano/I; M. Pittore, e-magine IT Srl, Genova/I; A. Mollica, A. Mollica, NewLab Snc, Genova/I; A. Mollica, ISMAR-CNR, Genova/I

SS 14-O-8262	12:10	Electrochemical sensing of aerobic marine bacterial biofilms within seawater piping systems <u>S. Werwinski</u> , J.A. Wharton, R.J.K. Wood, M.D. Iglesias-Rodriguez, University of Southampton/UK; K.R. Stokes, Dstl, Salisbury/UK
	12:30	<i>Lunchtime</i>
		<i>Sea Water Fouling Control: Coatings, Biocides Treatments</i>
	Chairs:	J.-P. Pautasso, DGA/DET, Bagneux/F & C. Powell, Consultant to the Nickel Institute, Ludlow/UK
SS 14-O-8356	14:00	Marine fouling organisms and their use in antifouling bioassays <u>M. Salta</u> , L. Chambers, University of Southampton/UK; J-F. Briand, Y. Blache, Universite du Sud Toulon-Var/F; J.A. Wharton, R.J.K. Wood, University of Southampton/UK; K.R. Stokes, Dstl Porton Down, Salisbury/UK
WS F-O-8126	14:20	Natural products as potential biocides in antifouling coatings G. Culioli, A. Ortalo-Magné, Université du Sud Toulon Var, La Garde/F; <u>S. Dennington</u> , L. Chambers, University of Southampton/UK; Y. Blache, Université du Sud Toulon Var, La Garde/F
WS F-O-8240	14:40	Trialkylsilylated methacrylic polymers for controlled erodible antifouling coating <u>C. Bressy</u> , M.N. Nguyen, A. Margailan, Université du Sud Toulon-Var, La Valette du Var/F
WS F-O-8242	15:00	Waterborne antifouling paints <u>C. Bressy</u> , G. Kermabon-Avon, A. Margailan, Université du Sud Toulon-Var, La Valette du Var/F